

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Lonberg, Nils Kay, Robert M.
- (ii) TITLE OF INVENTION: Transgenic Non-Human Animals for Producing Heterologous Antibodies
- (iii) NUMBER OF SEQUENCES: 417
- (iv) CORRESPONDENCE ADDRESS:
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 - (C) CITY: San Francisco
 - (D) STATE: California
 - (E) COUNTRY: USA
 - (F) ZIP: 94111-3834
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 09/724,965
 - (B) FILING DATE: 28-NOV-2000
 - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/758,417
 - (B) FILING DATE: 02-DEC-1996
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/728,463
 - (B) FILING DATE: 10-OCT-1996
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/544,404
 - (B) FILING DATE: 10-OCT-1995
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/352,322
 - (B) FILING DATE: 07-DEC-1994
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/209,741
 - (B) FILING DATE: 09-MAR-1994
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/165,699
 - (B) FILING DATE: 10-DEC-1993
 - (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/161,739
 - (B) FILING DATE: 03-DEC-1993

- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/155,301
 - (B) FILING DATE: 18-NOV-1993
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/096,762
 - (B) FILING DATE: 22-JUL-1993
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/053,131
 - (B) FILING DATE: 26-APR-1993
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/990,860
 - (B) FILING DATE: 16-DEC-1992
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/904,068
 - (B) FILING DATE: 23-JUN-1992
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/853,408
 - (B) FILING DATE: 18-MAR-1992
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/810,279
 - (B) FILING DATE: 17-DEC-1991
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/575,962
 - (B) FILING DATE: 31-AUG-1990
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 07/574,748
 - (B) FILING DATE: 29-AUG-1990
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: WO PCT/US92/10983
 - (B) FILING DATE: 29-AUG-1991
- (vii) PRIOR APPLICATION DATA:
 - (A) APPLICATION NUMBER: WO PCT/US91/06185
 - (B) FILING DATE: 29-AUG-1991
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Serafini, Andrew T.
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 - (C) REFERENCE/DOCKET NUMBER: 014643-009030US
 - (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (415) 576-0200
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- (2) INFORMATION FOR SEQ ID NO:1:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

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(ii) MOLECULE TYPE: DNA
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

(2) INFORMATION FOR SEQ ID NO:2:

CTAADTGGGG

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid (C) STRANDEDNESS:

 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Asp Ala Phe Asp Ile

- (2) INFORMATION FOR SEQ ID NO:3:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Asp Tyr Phe Asp Tyr

- (2) INFORMATION FOR SEQ ID NO:4:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Gly Ala Phe Asp Ile 1

10

- (2) INFORMATION FOR SEQ ID NO:5:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Lys Glu Arg Val

- (2) INFORMATION FOR SEQ ID NO:6:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Asn Asp Ser Val

- (2) INFORMATION FOR SEQ ID NO:7:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: RNA
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

12

(2) INFORMATION FOR SEQ ID NO:8:

AAAGAAAGAG UU

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: RNA

		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:	
	AAC	GACAGCG UU	12
	(2)	INFORMATION FOR SEQ ID NO:9:	
		 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
		(ii) MOLECULE TYPE: DNA	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:	
	GAG	CTGAGCT GGGGT	15
	(2)	INFORMATION FOR SEQ ID NO:10:	
		 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
		(ii) MOLECULE TYPE: DNA	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:	
•	GAG	CTGAGCT GAGCTGGGGT	20
	(2)	INFORMATION FOR SEQ ID NO:11:	
		 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 25 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
		(ii) MOLECULE TYPE: DNA	
		(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:	
•	GAG	CTGAGCT GAGCTGAGCT GGGGT	. 25
	(2)	INFORMATION FOR SEQ ID NO:12:	
		(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 30 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

	(II) MODECODE TIPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:	
GAGO	CTGAGCT GAGCTGAGCT GAGCTGGGGT	30
	·	
(2)	INFORMATION FOR SEQ ID NO:13:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:	
GAGO	CTGAGCT GAGCTGAGCT GGGGT	35
(2)	INFORMATION FOR SEQ ID NO:14:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:	
GAGO	CTGAGCT GAGCTGAGCT GAGCTGGGGT	40
(2)	INFORMATION FOR SEQ ID NO:15:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:	
GAG	CTGAGCT GAGCTGAGCT GAGCTGAGCT GGGGT	45
(2)	INFORMATION FOR SEQ ID NO:16:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:	
GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT GAGCTGGGGT	50
(2) INFORMATION FOR SEQ ID NO:17:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 55 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:	
GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT	55
(2) INFORMATION FOR SEQ ID NO:18:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 60 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:	
GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT	60
(2) INFORMATION FOR SEQ ID NO:19:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:	
GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT	60
GGGGT	65

(2)	INFORMATION FOR SEQ ID NO:20:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 70 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:	
GAG	TGAGCT GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT	60
GAGO	CTGGGGT	70
(2)	INFORMATION FOR SEQ ID NO:21:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:	
GAG	CTGAGCT GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT	60
GAG	CTGAGCT GGGGT	75
(2)	INFORMATION FOR SEQ ID NO:22:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 80 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:	
GAG	CTGAGCT GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT	60
GAG	CTGAGCT GAGCTGGGGT	80
(2)	INFORMATION FOR SEQ ID NO:23:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:
GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT
GAGCTGAGCT GAGCTGAGCT GGGGT 85
(2) INFORMATION FOR SEQ ID NO:24:
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 90 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:
GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT GAGCTGAGCT
GAGCTGAGCT GAGCTGGGGT 90
(2) INFORMATION FOR SEQ ID NO:25:
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:
AATTGCGGCC GC
(2) INFORMATION FOR SEQ ID NO:26:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:
CTTGAGCCCG CCTAATGAGC GGGCTTTTTT TTGCATACTG CGGCC 45

(2)	INFORMATION FOR SEQ ID NO:27:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:	
GCA	ATGGCCT GGATCCATGG CGCGCTAGCA TCGATATCTA GAGCTCGAGC A	51
(2)	INFORMATION FOR SEQ ID NO:28:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:	٠
TGC	AGATCTG AATTCCCGGG TACCAAGCTT ACGCGTACTA GTGCGGCCGC T	51
(2)	INFORMATION FOR SEQ ID NO:29:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:	
AAT	TAGCGGC CGCACTAGTA CGCGTAAGCT TGGTACCCGG GAATT	45
(2)	INFORMATION FOR SEQ ID NO:30:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:	
CAG	ATCTGCA TGCTCGAGCT CTAGATATCG ATGCTAGCGC GCCATGGATC C	51
(2)	INFORMATION FOR SEQ ID NO:31:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:	
AGG	CCATTGC GGCCGCAGTA TGCAAAAAAA AGCCCGCTCA TTAGGCGGGC T	51
(2)	INFORMATION FOR SEQ ID NO:32:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:	
CGC	GTGGCCG CAATGGCCA	19
(2)	INFORMATION FOR SEQ ID NO:33:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 19 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:	
CTA	GTGGCCA TTGCGGCCA	19
(2)	INFORMATION FOR SEQ ID NO:34:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:	
CAGGATCCAG ATATCAGTAC CTGAAACAGG GCTTGC	36
(2) INFORMATION FOR SEQ ID NO:35:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:	
GAGCATGCAC AGGACCTGGA GCACACAG CCTTCC	36
(2) INFORMATION FOR SEQ ID NO:36:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 42 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	í
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:	
GGACTGTGTC CCTGTGTGAT GCTTTTGATG TCTGGGGCCA AG	42
(2) INFORMATION FOR SEQ ID NO:37:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:37:	
CACCAAGTTG ACCTGCCTGG TCACAGACCT GACCACCTAT GA	42
(2) INFORMATION FOR SEQ ID NO:38:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 42 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:38:	
CCTGTGGACC ACCGCCTCCA CCTTCATCGT CCTCTTCCTC CT	42
(2) INFORMATION FOR SEQ ID NO:39:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:39:	
TGAGCCACGA AGACCCTGAG GTCAAGTTCA ACTGGTACGT GG	42
(2) INFORMATION FOR SEQ ID NO:40:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:40:	
TGGTATTACT ATGGTTCGGG GAGTTATTAT AACCACAGTG TC	42
(2) INFORMATION FOR SEQ ID NO:41:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:41:	
GCCTGAAATG GAGCCTCAGG GCACAGTGGG CACGGACACT GT	42
(2) INFORMATION FOR SEQ ID NO:42:	

	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
ı	(ii) MOLECULE TYPE: DNA	
ı	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:42:	
GCAG	GGAGGA CATGTTTAGG ATCTGAGGCC GCACCTGACA CC	42
(2)	INFORMATION FOR SEQ ID NO:43:	
·	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	•
	(ii) MOLECULE TYPE: DNA	
,	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:43:	
GATC	CTGGTT TAGTTAAAGA GGATTTTATT CACCCCTGTG TC	42
(2)	INFORMATION FOR SEQ ID NO:44:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:44:	
GATC	CAAGCA GT	12
(2)	INFORMATION FOR SEQ ID NO:45:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(wi) another description, see ID No.45	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:45:	12
CTAG	ACTGCT TG	14

(2)	INFORMATION FOR SEQ ID NO:46:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:46:	
CGC	GTCGAAC TA	12
(2)	INFORMATION FOR SEQ ID NO:47:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:47:	
AGC'	TTAGTTC GA	12
(2)	INFORMATION FOR SEQ ID NO:48:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:48:	
GAA'	TGGGAGT GAGGCTCTCT CATACCCTAT TCAGAACTGA CT	42
(2)	INFORMATION FOR SEQ ID NO:49:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	

(XI) SEQUENCE DESCRIPTION: SEQ 1D NO.49.	
GAACTGTGGC TGCACCATCT GTCTTCATCT TCCCGCCATC TG	42
(2) INFORMATION FOR SEQ ID NO:50:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:50:	
GAGGTACACT GACATACTGG CATGCCCCCC CCCCCC	36
(2) INFORMATION FOR SEQ ID NO:51:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:51:	
GTACGCCATA TCAGCTGGAT GAAGTCATCA GATGGCGGGA AGATGAAGAC AGATGGTGCA	60
(2) INFORMATION FOR SEQ ID NO:52:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:52:	
TCATCAGATG GCGGGAAGAT GAAGACAGAT GGTGCA	36
(2) INFORMATION FOR SEQ ID NO:53:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:53:	
GTACGCCATA TCAGCTGGAT GAAG	24
(2) INFORMATION FOR SEQ ID NO:54:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:54:	
GAGGTACACT GACATACTGG CATG	24
(2) INFORMATION FOR SEQ ID NO:55:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 60 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:55:	
GTACGCCATA TCAGCTGGAT GAAGACAGGA GACGAGGGGG AAAAGGGTTG GGGCGGATGC	60
(2) INFORMATION FOR SEQ ID NO:56:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:56:	
ACAGGAGACG AGGGGGAAAA GGGTTGGGGC GGATGC	36
(2) INFORMATION FOR SEQ ID NO:57:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid	

	(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:57:	
GTA	CTCCATA TCAGCTGGAT GAAG	24
(2)	INFORMATION FOR SEQ ID NO:58:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:58:	
GGC'	TGATGCT GCACCAACTG TATCCATCTT CCCACCATCC AG	42
(2)	INFORMATION FOR SEQ ID NO:59:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:59:	
CTC	ACGTTCG GTGCTGGGAC CAAGCTGGAG CTGAAACGTA AG	42
(2)	INFORMATION FOR SEQ ID NO:60:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:60:	
ACT	ATGCTAT GGACTACTGG GGTCAAGGAA CCTCAGTCAC CG	42
(2)	INFORMATION FOR SEC ID NO.61.	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 59 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:61:	
GGCCGCTCGA CGATAGCCTC GAGGCTATAA ATCTAGAAGA ATTCCAGCAA AGCTTTGGC	59
(2) INFORMATION FOR SEQ ID NO:62:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:62:	
CAAGAGCCCG CCTAATGAGC GGGCTTTTTT TTGCATACTG CGGCCGCT	4.8
(2) INFORMATION FOR SEQ ID NO:63:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:63:	
AATTAGCGGC CGCAGTATGC AAAAAAAAGC CCGCTCATTA GGCGGGCT	48
(2) INFORMATION FOR SEQ ID NO:64:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 59 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:64:	
GCGGCCGCCT CGAGATCACT ATCGATTAAT TAAGGATCCA GCAGTAAGCT TGCGGCCGC	59

(2)	INFORMATION FOR SEQ ID NO:65:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:65:	
GCG	GCCGCAT CCCGGGTCTC GAGGTCGACA AGCTTTCGAG GATCCGCGGC CGC	53
(2)	INFORMATION FOR SEQ ID NO:66:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 47 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:66:	
GCG	GCCGCTG TCGACAAGCT TATCGATGGA TCCTCGAGTG CGGCCGC	47
(2)	INFORMATION FOR SEQ ID NO:67:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 65 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:67:	
GCG	GCCGCTG TCGACAAGCT TCGAATTCAG ATCGATGTGG TACCTGGATC CTCGAGTGCG	60
GCC	GC .	65
(2)	INFORMATION FOR SEQ ID NO:68:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:68:	
GGCCGCAAGC TTACTGCTGG ATCCTTAATT AATCGATAGT GATCTCGAGG C	51
(2) INFORMATION FOR SEQ ID NO:69:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:69:	
GGCCGCCTCG AGATCACTAT CGATTAATTA AGGATCCAGC AGTAAGCTTG C	51
(2) INFORMATION FOR SEQ ID NO:70:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:70:	
CTCCAGGATC CAGATATCAG TACCTGAAAC AGGGCTTGC	39
(2) INFORMATION FOR SEQ ID NO:71:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:71:	
CTCGAGCATG CACAGGACCT GGAGCACACA CAGCCTTCC	39
(2) INFORMATION FOR SEQ ID NO:72:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 3618 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..3618
- (D) OTHER INFORMATION: /note= "vector pGPe"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:72:

AATTAGCGGC CGCCTCGAGA TCACTATCGA TTAATTAAGG ATCCAGATAT CAGTACCTGA 60 AACAGGGCTG CTCACAACAT CTCTCTCTT GTCTCTCTGT CTCTGTGTGT GTGTCTCTCT 120 180 240 300 CTCTGTGCAG GGTTGGCCCT CGGGGCACAT GCAAATGGAT GTTTGTTCCA TGCAGAAAAA 360 CATGTTTCTC ATTCTCTGAG CCAAAAATAG CATCAATGAT TCCCCCACCC TGCAGCTGCA 420 GGTTCACCCC ACCTGGCCAG GTTGACCAGC TTTGGGGATG GGGCTGGGGG TTCCATGACC 480 CCTAACGGTG ACATTGAATT CAGTGTTTTC CCATTTATCG ACACTGCTGG AATCTGACCC 540 TAGGAGGGAA TGACAGGAGA TAGGCAAGGT CCAAACACCC CAGGGAAGTG GGAGAGACAG 600 GAAGGCTGTG TGTGCTCCAG GTCCTGTGCA TGCTGCAGAT CTGAATTCCC GGGTACCAAG 660 CTTGCGGCCG CAGTATGCAA AAAAAAGCCC GCTCATTAGG CGGGCTCTTG GCAGAACATA 720 TCCATCGCGT CCGCCATCTC CAGCAGCCGC ACGCGGCGCA TCTCGGGCAG CGTTGGGTCC 780 TGGCCACGGG TGCGCATGAT CGTGCTCCTG TCGTTGAGGA CCCGGCTAGG CTGGCGGGGT 840 TGCCTTACTG GTTAGCAGAA TGAATCACCG ATACGCGAGC GAACGTGAAG CGACTGCTGC 900 TGCAAAACGT CTGCGACCTG AGCAACAACA TGAATGGTCT TCGGTTTCCG TGTTTCGTAA 960 AGTCTGGAAA CGCGGAAGTC AGCGCCCTGC ACCATTATGT TCCGGATCTG CATCGCAGGA 1020 TGCTGCTGGC TACCCTGTGG AACACCTACA TCTGTATTAA CGAAGCGCTG GCATTGACCC 1080 TGAGTGATTT TTCTCTGGTC CCGCCGCATC CATACCGCCA GTTGTTTACC CTCACAACGT 1140 TCCAGTAACC GGGCATGTTC ATCATCAGTA ACCCGTATCG TCACGATCCT CTCTCGTTTC 1200 ATCGGTATCA TTACCCCCAT GAACAGAAAT TCCCCCTTAC ACGGAGGCAT CAAGTGACCA 1260 AACAGGAAAA AACCGCCCTT AACATGGCCC GCTTTATCAG AAGCCAGACA TTAACGCTTC 1320 TGGAGAAACT CAACGAGCTG GACGCGGATG AACAGGCAGA CATCTGTGAA TCGCTTCACG 1380 ACCACGCTGA TGAGCTTTAC CGCAGCTGCC TCGCGCGTTT CGGTGATGAC GGTGAAAACC 1440 TCTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA 1500

GACAAGCCCG	TCAGGGCGCG	TCAGCGGGTG	TTGGCGGGTG	TCGGGGCGCA	GCCATGACCC	1560
AGTCACGTAG	CGATAGCGGA	GTGTATACTG	GCTTAACTAT	GCGGCATCAG	AGCAGATTGT	1620
ACTGAGAGTG	CACCATATGC	GGTGTGAAAT	ACCGCACAGA	TGCGTAAGGA	GAAAATACCG	1680
CATCAGĢCGC	TCTTCCGCTT	CCTCGCTCAC	TGACTCGCTG	CGCTCGGTCG	TTCGGCTGCG	1740
GCGAGCGGTA	TCAGCTCACT	CAAAGGCGGT	AATACGGTTA	TCCACAGAAT	CAGGGGATAA	1800
CGCAGGAAAG	AACATGTGAG	CAAAAGGCCA	GCAAAAGGCC	AGGAACCGTA	AAAAGGCCGC	1860
GTTGCTGGCG	TTTTTCCATA	GGCTCCGCCC	CCCTGACGAG	CATCACAAAA	ATCGACGCTC	1920
AAGTCAGAGG	TGGCGAAACC	CGACAGGACT	ATAAAGATAC	CAGGCGTTTC	CCCCTGGAAG	1980
CTCCCTCGTG	CGCTCTCCTT	AGGTATCTCA	GTTCGGTGTA	GGTCGTTCGC	TCCAAGCTGG	2040
GCTGTGTGCA	CGAACCCCCC	GTTCAGCCCG	ACCGCTGCGC	CTTATCCGGT	AACTATCGTC	2100
TTGAGTCCAA	CCCGGTAAGA	CACGACTTAT	CGCCACTGGC	AGCAGCCACT	GGTAACAGGA	2160
TTAGCAGAGC	GAGGTATGTA	GGCGGTGCTA	CAGAGTTCTT	GAAGTGGTGG	CCTAACTACG	2220
GCTACACTAG	AAGGACAGTA	TTTGGTATCT	GCGCTCTGCT	GAAGCCAGTT	ACCTTCGGAA	2280
AAAGAGTTGG	TAGCTCTTGA	TCCGGCAAAC	AAACCACCGC	TGGTAGCGGT	GGTTTTTTTG	2340
TTTGCAAGCA	GCAGATTACG	CGCAGAAAAA	AAGGATCTCA	AGAAGATCCT	TTGATCTTTT	2400
CTACGGGGTC	TGACGCTCAG	TGGAACGAAA	ACTCACGTTA	AGGGATTTTG	GTCATGAGAT	2460
TATCAAAAAG	GATCTTCACC	TAGATCCTTT	TAAATTAAAA	ATGAAGTTTT	AAATCAATCT	2520
AAAGTATATA	TGAGTAAACT	TGGTCTGACA	GTTACCAATG	CTTAATCAGT	GAGGCAGGTA	2580
TCTCAGCGAT	CŢGTCTATTT	CGTTCATCCA	TAGTTGCCTG	ACTCCCCGTC	GTGTAGATAA	2640
CTACGATACG	GGAGGGCTTA	CCATCTGGCC	CCAGTGCTGC	AATGATACCG	CGAGACCCAC	2700
GCTCACCGGC	TCCAGATTTA	TCAGCAATAA	ACCAGCCAGC	CGGAAGGGCC	GAGCGCAGAA	2760
GTGGTCCTGC	AACTTTATCC	GCCTCCATCC	AGTCTATTAA	TTGTTGCCGG	GAAGCTAGAG	2820
TAAGTAGTTC	GCCAGTTAAT	AGTTTGCGCA	ACGTTGTTGC	CATTGCTGCA	GGCATCGTGG	2880
TGTCACGCTC	GTCGTTTGGT	ATGGCTTCAT	TCAGCTCCGG	TTCCCAACGA	TCAAGGCGAG	2940
TTACATGATC	CCCCATGTTG	TGCAAAAAAG	CGGTTAGCTC	CTTCGGTCCT	CCGATCGTTG	3000
TCAGAAGTAA	GTTGGCCGCA	GTGTTATCAC	TCATGGTTAT	GGCAGCACTG	CATAATTCTC	3060
TTACTGTCAT	GCCATCCGTA	AGATGCTTTT	CTGTGACTGG	TGAGTACTCA	ACCAAGTCAT	3120
TCTGAGAATA	GTGTATGCGG	CGACCGAGTT	GCTCTTGCCC	GGCGTCAACA	CGGGATAATA	3180
CCGCGCCACA	TAGCAGAACT	TTAAAAGTGC	TCATCATTGG	AAAACGTTCT	TCGGGGCGAA	3240
AACTCTCAAG	GATCTTACCG	CTGTTGAGAT	CCAGTTCGAT	GTAACCCACT	CGTGCACCCA	3300

ACTGATCTTC AGCATCTTTT ACTTTCACCA GCGTTTCTGG GTGAGCAAAA ACAGGAAGGC	3360
AAAATGCCGC AAAAAAGGGA ATAAGGGCGA CACGGAAATG TTGAATACTC ATACTCTTCC	3420
TTTTTCAATA TTATTGAAGC ATTTATCAGG GTTATTGTCT GATGAGCGGA TACATATTTG	3480
AATGTATTTA GAAAAATAAA CAAATAGGGG TTCCGCGCAC ATTTCCCCGA AAAGTGCCAC	3540
CTGACGTCTA AGAAACCATT ATTATCATGA CATTAACCTA TAAAAATAGG CGTATCACGA	3600
GGCCCTTTCG TCTTCAAG	3618
(2) INFORMATION FOR SEQ ID NO:73: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:73:	·
GGACTGTGTC CCTGTGTGAT GCTTTTGATG TCTGGGGCCA AG	42
(2) INFORMATION FOR SEQ ID NO:74:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:74:	
CACCAAGTTG ACCTGCCTGG TCACAGACCT GACCACCTAT GA	42
(2) INFORMATION FOR SEQ ID NO:75:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:75:	

TGGTATTACT ATGGTTCGGG GAGTTATTAT AACCACAGTG TC

(2)	INFORMATION FOR SEQ ID NO:76:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:76:	
CAG	CAGGTGC ACACCCAATG CCCATGAGCC CAGACACTGG AC	42
(2)	INFORMATION FOR SEQ ID NO:77:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:77:	
TGAG	GCCCAGA CACTGGAC	18
(2)	INFORMATION FOR SEQ ID NO:78:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:78:	
GTT	AAAGAGG ATTTTATTCA CCCCTGTGTC CTCTCCACAG GTGTC	45
(2)	INFORMATION FOR SEQ ID NO:79:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 812 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(ix) FEATURE:	

(A) NAME/KEY: CDS

(B) LOCATION: join(241..286, 373..677)

(D) OTHER INFORMATION: /note= "human V-HI family gene V-H49.8"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:79:

· / -	
TTCCTCAGGC AGGATTTAGG GCTTGGTCTC TCAGCATCCC ACACTTGTAC AGCTGATGTG	60
GCATCTGTGT TTTCTTCTC ATCCTAGATC AAGCTTTGAG CTGTGAAATA CCCTGCCTCA	120
TGAATATGCA AATAATCTGA GGTCTTCTGA GATAAATATA GATATATTGG TGCCCTGAGA	180
GCATCACATA ACAACCAGAT TCCTCCTCTA AAGAAGCCCC TGGGAGCACA GCTCATCACC	240
ATG GAC TGG ACC TGG AGG TTC CTC TTT GTG GTG GCA GCA GCT ACA G Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr 1 5 10 15	286
GTAAGGGGCT TCCTAGTCCT AAGGCTGAGG AAGGGATCCT GGTTTAGTTA AAGAGGATTT	346
TATTCACCCC TGTGTCCTCT CCACAG GT GTC CAG TCC CAG GTC CAG CTG GTG Gly Val Gln Ser Gln Val Gln Leu Val 20	398
CAG TCT GGG GCT GAG GTG AAG AAG CCT GGG TCC TCG GTG AAG GTC TCC Gln Ser Gly Ala Glu Val Lys Lys Pro Gly Ser Ser Val Lys Val Ser	446
25 30 35 40	
TGC AAG GCT TCT GGA GGC ACC TTC AGC AGC TAT GCT ATC AGC TGG GTG Cys Lys Ala Ser Gly Gly Thr Phe Ser Ser Tyr Ala Ile Ser Trp Val 45 50 55	494
CGA CAG GCC CCT GGA CAA GGG CTT GAG TGG ATG GGA AGG ATC ATC CCT Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Arg Ile Ile Pro 60 65 70	542
ATC CTT GGT ATA GCA AAC TAC GCA CAG AAG TTC CAG GGC AGA GTC ACG Ile Leu Gly Ile Ala Asn Tyr Ala Gln Lys Phe Gln Gly Arg Val Thr 75 80 85	590
ATT ACC GCG GAC AAA TCC ACG AGC ACA GCC TAC ATG GAG CTG AGC AGC Ile Thr Ala Asp Lys Ser Thr Ser Thr Ala Tyr Met Glu Leu Ser Ser 90 95 100	638
CTG AGA TCT GAG GAC ACG GCC GTG TAT TAC TGT GCG AGA GACACAGTGT Leu Arg Ser Glu Asp Thr Ala Val Tyr Tyr Cys Ala Arg 105 110 115	687
GAAAACCCAC ATCCTGAGAG TGTCAGAAAC CCTGAGGGAG AAGGCAGCTG TGCCGGGCTG	747
AGGAGATGAC AGGGTTTATT AGGTTTAAGG CTGTTTACAA AATGGGTTAT ATATTTGAGA	807
AAAAA	812

(2) INFORMATION FOR SEQ ID NO:80:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 117 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protei	(ii)	MOLECULE	TYPE:	protein
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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:80:

Met Asp Trp Thr Trp Arg Phe Leu Phe Val Val Ala Ala Ala Thr Gly
1 5 10 15

Val Gln Ser Gln Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
20 25 30

Pro Gly Ser Ser Val Lys Val Ser Cys Lys Ala Ser Gly Gly Thr Phe
35 40 45

Ser Ser Tyr Ala Ile Ser Trp Val Arg Gln Ala Pro Gly Gln Gly Leu
50 55 60

Glu Trp Met Gly Arg Ile Ile Pro Ile Leu Gly Ile Ala Asn Tyr Ala 65 70 75 80

Gln Lys Phe Gln Gly Arg Val Thr Ile Thr Ala Asp Lys Ser Thr Ser 85 90 95

Thr Ala Tyr Met Glu Leu Ser Ser Leu Arg Ser Glu Asp Thr Ala Val 100 105 110

Tyr Tyr Cys Ala Arg 115

(2) INFORMATION FOR SEQ ID NO:81:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 12 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:81:

CCGGTCGACC GG 12

(2) INFORMATION FOR SEQ ID NO:82:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 40 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:82:

CTAGCTCGAG TCCAAGGAGT CTGTGCCGAG GTGCAGCTGN

(2)	INFORMATION FOR SEQ ID NO:83:	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 40 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
	(C) STRANDEDNESS: SINGLE (D) TOPOLOGY: linear	
	(b) for obodi. Timedi	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:83:	
	<u></u>	4.0
GTT	GCTCGAG TGAAAGGTGT CCAGTGTGAG GTGCAGCTGN	40
(2)	INFORMATION FOR SEQ ID NO:84:	
	(1) CROUDICE CHADACTEDICTICS.	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs	
	(B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(11) 110223022 11103 11103	
	() CONTROL DEGENERAL GEO. ID NO. 04.	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:84:	
GGC	GCTCGAG TTCCACGACA CCGTCACCGG TTC	33
(2)	INFORMATION FOR SEQ ID NO:85:	
(2)	INFORMATION FOR DEG ID NO.001.	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 33 base pairs	
	(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
	(C) SIRANDEDNESS: SINGLE (D) TOPOLOGY: linear	
	(2) 2020200 =======	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:85:	
CCT	GCTCGAG GCAGCCAACG GCCACGCTGC TCG	33
(2)	INFORMATION FOR SEQ ID NO:86:	
	(1) CECUENCE CUID COMPRIGNICA	
	(i) SEQUENCE CHARACTERISTICS:	
	(A) LENGTH: 88 base pairs (B) TYPE: nucleic acid	
	(C) STRANDEDNESS: single	
	(D) TOPOLOGY: linear	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:86:	
TACTGTGCGA GACGGCTAAA CTGGGGTTGA TGCTTTTGAT ATCTGGGGCC AAGGGACAAT	60
GGTCACCGTC TCTTCAGCCT CCACCAAG	88
(2) INFORMATION FOR SEQ ID NO:87:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:87:	
TACTGTGCGA GACACCGTAT AGCAGCAGCT GGCTTTGACT ACTGGGGCCA GGGAACCCTG	60
GTCACCGTCT CCTCAGCCTC CACCAAG	87
(2) INFORMATION FOR SEQ ID NO:88:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:88:	
TACTGTGCGA GATATTACTA CTACTACTAC GGTATGGACG TCTGGGGCCA AGGGACCACG	60
GTCACCGTCT CCTCAGCCTC CACCAAG	87
(2) INFORMATION FOR SEQ ID NO:89:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 104 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:89:	
TACTGTGCGA GACATTACGA TATTTTGACT GGTCCTACTA CTACTACGGT ATGGACGTCT	60
GGGGCCAAGG GACCACGGTC ACCGTCTCCT CAGCCTCCAC CAAG	104

(2) INFORMATION FOR SEQ ID NO:90:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 101 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:90:	
TACTGTGCGA GACGGAGGTA CTATGGTTCG GGGAGTTATT ATAACGTCTT TGACTACTGG	60
GGCCAGGGAA CCTGGTCACC GTCTCCTCAG CCTCCACCAA G	101
(2) INFORMATION FOR SEQ ID NO:91:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:91:	
TACTGTGCGA GACGGGGGT GTCTGATGCT TTTGATATCT GGGGCCAAGG GACAATGGTC	60
ACCGTCTCTT CAGCCTCCAC CAAG	84
(2) INFORMATION FOR SEQ ID NO:92:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 78 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:92:	
TACTGTGCGA GAGCAACTGG CGCTTTTGAT ATCTGGGGCC AAGGGACAAT GGTCACCGTC	. 60
TCTTCAGGGA GTGCATCC	78
(2) INFORMATION FOR SEQ ID NO:93:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 99 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(II) MODECOLE IIII. DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:93:	
TACTGTGCGA GATCGGCTAA CTGGGGATCC TACTACTACT ACGGTATGGA CGTCTGGGGC	50
CAAGGGACCA CGGTCACCGT CTCCTCAGGG AGTGCATCC	9
(2) INFORMATION FOR SEQ ID NO:94:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 69 base pairs(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:94:	
TACTGTGCGA GATACTTCCA GCACTGGGGC CAGGGCACCC TGGTCACCGT CTCCTCAGGG	50
AGTGCGTCC	59
(2) INFORMATION FOR SEQ ID NO:95:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 81 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:95:	
TACTGTGCGA GACACGTAGC TAACTCTTTT GACTACTGGG GCCAGGGAAC CCTGGTCACC	50
GTCTCCTCAG GGAGTGCATC C	31
(2) INFORMATION FOR SEQ ID NO:96:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 93 base pairs	
(B) TYPE: nucleic acid (C) STRANDEDNESS: single	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:96:	
TACTGTGCGA GACAAATTAC TATGGTTCGG GGAGTTCCCT TTGACTACTG GGGCCAGGGA	50

ACCCTGGTCA CCGTCTCCTC AGGGAGTGCA TCC	93
(2) INFORMATION FOR SEQ ID NO:97:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 72 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	`
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:97:	
TACTGTGCGA GACAATACTT CCAGCACTGG GGCCAGGGCA CCCTGGTCAC CGTCTCCTCA	60
GGGAGTGCAT CC	72
(2) INFORMATION FOR SEQ ID NO:98:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 93 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:98:	
TACTGTGCGA GACAAACTGG GGACTACTAC TACTACGGTA TGGACGTCTG GGGCCAAGGG	60
ACCACGGTCA CCGTCTCCTC AGGGAGTGCA TCC	93
(2) INFORMATION FOR SEQ ID NO:99:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 107 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:99:	
TACTGTGCGA GACATTACTA TGGTTCGGGG AGTTATGACT ACTACTACTA CGGTATGGAC	60
GTCTGGGGCC AAGGGACCAG GTCACCGTCT CCTCAGGGAG TGCATCC	107
(2) INFORMATION FOR SEQ ID NO:100:	
(i) SEQUENCE CHARACTERISTICS:	

	(A) LENGTH: 64 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:100:	
TAC	TGTGCGA GACAGGGAGT GGGGCCAGGG AACCCTGGTC ACCGTCTCCT CAGCCTCCAC	60
CAA	G	64
(2)	INFORMATION FOR SEQ ID NO:101:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 80 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:101:	
TAC'	TGTGCGA GATTCTGGGA GACTGGTTCG ACCCCTGGGG CCAGGGAACC CTGGTCACCG	60
TCT	CCTCAGG GAGTGCATCC	80
(2)	INFORMATION FOR SEQ ID NO:102:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 102 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:102:	
TAC'	TGTGCGA GACGGAGGTA CTATGGTTCG GGGAGTTATT ATAACGTCTT TGACTACTGG	60
GGC	CAGGGAA CCCTGGTCAC CGTCTCCTCA GCCTCCACCA AG	102
(2)	INFORMATION FOR SEQ ID NO:103:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 78 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:103:	
TACTGTGCGA GACAAACCTG GGGAGGAGAC TACTGGGGCC AGGGAACCCT GGTCACCGTC	60
TCCTCAGCCT CCACCAAG	78
(a) TWDODWITTON FOR GEO ID NO 104	
(2) INFORMATION FOR SEQ ID NO:104:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 99 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:104:	
TACTGTGCGA GAGGATATAG TGGCTACGAT AACTACTACT ACGGTATGGA CGTCTGGGGC	60
CAAGGGACCA CGGTCACCGT CTCCTCAGCC TCCACCAAG	99
(a) TWEEDWARTON FOR GEO ID NO. 105	
(2) INFORMATION FOR SEQ ID NO:105:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:105:	
TACTGTGCGA GACAAACTGG GGAGGACTAC TTTGACTACT GGGGCCAGGG AACCCTGGTC	60
ACCGTCTCCT CAGGGAGTGC ATCC	84
(2) INFORMATION FOR SEQ ID NO:106:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:106:	
TACTGRGCGA GATATAGTGG CTACGATTAC CTACTGGTAC TTCGATCTCT GGGGCCGTGG	60
CACCCTGGTC ACCGTCTCCT CAGCCTCCAC CAAG	94

(2) INFORMATION FOR SEQ ID NO:107:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 96 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:107:	
TACTGRGCGA GAGCATCCCT CCCCTCCTTT GACTACTACG GTATGGACGT CTGGGGCCAA	60
GGGACCACGG TCACCGTCTC CTCAGCCTCC ACCAAG	96
(2) INFORMATION FOR SEQ ID NO:108:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 76 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:108:	
TACTGTGCGA GACGGGGTGG GGTTTGACTA CTGGGGCCAG GGAACCCTGG TCACCGTCTC	60
CTCAGGGAGT GCATCC	76
(2) INFORMATION FOR SEQ ID NO:109:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 94 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:109:	
TACTGTGTGC CGGTCGAAAC TTTACTACTA CTACTACGGT ATGGACGTCT GGGGCCAAGG	60
GACCACGGTC ACCGTCTCCT CAGGGAGTGC ATCC	94
(2) INFORMATION FOR SEQ ID NO:110:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 84 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:110:	
TACTGTGCGA GAGATATTTT GACTGGTTAA CGTGACTACT GGGGCCAGGG AACCCTGGTC	60
ACCGTCTCCT CAGGGAGTGC ATCC	84
(2) INFORMATION FOR SEQ ID NO:111:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 93 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:111:	
TACTGTGCGA GACATGGTAT AGCAGCAGCT GGTACTGCTT TTGATATCTG GGGCCAAGGG	60
ACAATGGTCA CCGTCTCTTC AGGGAGTGCA TCC	93
(2) INFORMATION FOR SEQ ID NO:112:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 84 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:112:	
TACTGTGTGA GATCAACTGG GGTTGATGCT TTTGATATCT GGGGCCAAGG GACAATGGTC	60
ACCGTCTCTT CAGGGAGTGC ATCC	84
(2) INFORMATION FOR SEQ ID NO:113:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 85 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:113:	

TACTGTGCGG AAATAGCAGC AGCTGCCCTA CTTTGACTAC TGGGGCCAGG GAACCCTGGT	60
CACCGTCTCC TCAGGGAGTG CATCC	85
(2) INFORMATION FOR SEQ ID NO:114:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 87 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:114:	
TACTGTGTGT GTATAGCAGC AGCTGGTAAA GGAAACGGCT ACTGGGGCCA GGGAACCCTG	60
GTCACCGTCT CCTCAGGGAG TGCATCC	87
(2) INFORMATION FOR SEQ ID NO:115:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 75 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:115:	
TACTGTGCGA GACAAAACTG GGGTGACTAC TGGGGCCAGG GAACCCTGGT CACCGTCTCC	60
TCAGGGAGTG CATCC	75
(2) INFORMATION FOR SEQ ID NO:116:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 29 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: peptide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:116:	
Tyr Cys Ala Arg Arg Leu Thr Gly Val Asp Ala Phe Asp Ile Trp Gly 1 5 10 . 15	
Gln Gly Thr Met Val Thr Met Ser Ser Ala Ser Thr Lys	

- (2) INFORMATION FOR SEQ ID NO:117:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:117:

Tyr Cys Ala Arg His Arg Ile Ala Ala Ala Gly Phe Asp Tyr Trp Gly
1 5 10 15

Gln Gly Thr Leu Val Thr Val Ser Ser Ala Ser Thr Lys
20 25

- (2) INFORMATION FOR SEQ ID NO:118:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:118:

Tyr Cys Ala Arg Tyr Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly
1 10 15

Gln Gly Thr Thr Val Thr Val Ser Ser Ala Ser Thr Lys

- (2) INFORMATION FOR SEQ ID NO:119:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 34 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:119:

Tyr Cys Ala Arg His Tyr Asp Ile Leu Thr Gly Pro Thr Thr Thr

Val Trp Thr Ser Gly Ala Lys Gly Pro Arg Ser Pro Ser Pro Gln Pro 20 25 30

Pro Pro

- (2) INFORMATION FOR SEQ ID NO:120:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 34 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:120:

Tyr Cys Ala Arg Arg Tyr Tyr Gly Ser Gly Ser Tyr Tyr Asn Val 1 5 10 15

Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Ala Asp 20 25 30

Thr Lys

- (2) INFORMATION FOR SEQ ID NO:121:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:121:

Tyr Cys Ala Arg Arg Gly Val Ser Asp Ala Phe Asp Ile Trp Gly Gln 1 5 10 15

Gly Thr Met Val Thr Val Ser Ser Ala Asp Thr Lys
20 25

- (2) INFORMATION FOR SEQ ID NO:122:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:122:

Tyr Cys Ala Arg Ala Thr Gly Ala Phe Asp Ile Trp Gly Gln Gly Thr
1 5 10 15

Met Val Thr Val Ser Ser Gly Ser Ala Ser 20 25

- (2) INFORMATION FOR SEQ ID NO:123:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:123:

Tyr Cys Ala Arg Ser Ala Asn Trp Gly Ser Tyr Tyr Tyr Tyr Gly Met 1 5 10 15

Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Ser Ala
20 25 30

Ser

- (2) INFORMATION FOR SEQ ID NO:124:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 23 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:124:

Tyr Cys Ala Arg Tyr Phe Gln His Trp Gly Gln Gly Thr Leu Val Thr 1 5 10 15

Val Ser Ser Gly Ser Ala Ser 20

- (2) INFORMATION FOR SEQ ID NO:125:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 27 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:125:

Tyr Cys Ala Arg His Val Ala Asn Ser Phe Asp Tyr Trp Gly Gln Gly
1 5 10 15

Thr Leu Val Thr Val Ser Ser Gly Ser Ala Ser 20 25

- (2) INFORMATION FOR SEQ ID NO:126:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 amino 'acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:126:

Tyr Cys Ala Arg Gln Ile Thr Met Val Arg Gly Val Pro Phe Asp Tyr 1 5 10 15

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Ser Ala Ser 20 25 30

- (2) INFORMATION FOR SEQ ID NO:127:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 24 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:127:

Tyr Cys Ala Arg Gln Tyr Phe Gln His Trp Gly Gln Gly Thr Leu Val 1 5 10 15

Thr Val Ser Ser Gly Ser Ala Ser 20

- (2) INFORMATION FOR SEQ ID NO:128:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:128:

Tyr Cys Ala Arg Gln Thr Gly Asp Tyr Tyr Tyr Gly Met Asp Val 1 5 10 15 Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Ser Ala Ser 20 25 30

- (2) INFORMATION FOR SEQ ID NO:129:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 36 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:129:

Tyr Cys Ala Arg His Tyr Tyr Gly Ser Gly Ser Tyr Asp Tyr Tyr Tyr 1 5 10 15

Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser 20 25 30

Gly Ser Ala Ser 35

- (2) INFORMATION FOR SEQ ID NO:130:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 21 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:130:

Tyr Cys Ala Arg Gln Gly Val Gly Pro Gly Asn Pro Gly His Arg Leu
1 10 .15

Leu Ser Leu His Gln 20

- (2) INFORMATION FOR SEQ ID NO:131:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:131:

Tyr Cys Val Arg Phe Trp Glu Thr Gly Ser Thr Pro Gly Ala Arg Glu
1 5 10 15

Pro Trp Ser Pro Ser Pro Gln Gly Val His

- (2) INFORMATION FOR SEQ ID NO:132:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 34 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:132:

Tyr Cys Ala Arg Arg Tyr Tyr Gly Ser Gly Ser Tyr Tyr Asn Val

Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Ser 20 25 30

Thr Lys

- (2) INFORMATION FOR SEQ ID NO:133:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 26 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:133:

Tyr Cys Ala Arg Gln Thr Trp Gly Gly Asp Tyr Trp Gly Gln Gly Thr 1 5 10 15

Leu Val Thr Val Ser Ser Gly Ser Thr Lys 20 25

- (2) INFORMATION FOR SEQ ID NO:134:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:134:

Tyr Cys Ala Arg Gly Tyr Ser Gly Tyr Asp Asn Tyr Tyr Tyr Gly Ile 1 5 10 15

His Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Ser Thr 20 25 30

Lys

- (2) INFORMATION FOR SEQ ID NO:135:
 - (i) SEOUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:135:

Tyr Cys Ala Arg Gln Thr Gly Glu Asp Tyr Phe Asp Tyr Trp Gly Gln 1 5 10 15

Gly Thr Leu Val Thr Val Ser Ser Gly Ser Ala Ser 20 25

- (2) INFORMATION FOR SEQ ID NO:136:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:136:

Tyr Cys Ala Arg Tyr Ser Gly Tyr Asp Tyr Leu Leu Val Leu Arg Ser 1 5 10 15

Leu Gly Pro Trp His Pro Gly His Cys Leu Leu Ser Leu His Arg 20 25 30

- (2) INFORMATION FOR SEQ ID NO:137:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 32 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:137:

Tyr Cys Ala Arg Ala Ser Leu Pro Ser Phe Asp Tyr Tyr Gly Met Asp 1 5 10 15

Val Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser Gly Ser Thr Lys 20 25 30

- (2) INFORMATION FOR SEQ ID NO:138:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:138:

Tyr Cys Ala Arg Gly Gly Gly Leu Thr Thr Gly Ala Arg Glu Pro

Trp Ser Pro Ser Pro Gln Gly Val His
20 25

- (2) INFORMATION FOR SEQ ID NO:139:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:139:

Tyr Cys Val Pro Val Glu Thr Leu Leu Leu Leu Leu Arg Tyr Gly Arg 1 5 10 15

Leu Gly Pro Arg Asp His Gly His Arg Leu Leu Arg Glu Cys Ile 20 25 30

- (2) INFORMATION FOR SEQ ID NO:140:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:140:

Tyr Cys Val Arg Asp Ile Leu Thr Gly Glx Arg Asp Tyr Trp Gly Gln
5 10 15

Gly Thr Leu Val Thr Val Ser Ser Gly Ser Ala Ser
20 25

- (2) INFORMATION FOR SEQ ID NO:141:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 31 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:141:

Tyr Cys Ala Arg His Gly Ile Ala Ala Gly Thr Ala Phe Asp Ile 1 5 10 15

Trp Gly Gln Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala Ser 20 25 30

- (2) INFORMATION FOR SEQ ID NO:142:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 28 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:142:

Tyr Cys Val Arg Ser Thr Gly Val Asp Ala Phe Asp Ile Trp Gly Gln 1 5 10 15

Gly Thr Met Val Thr Val Ser Ser Gly Ser Ala Ser 20 25

- (2) INFORMATION FOR SEQ ID NO:143:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:143:

Tyr Cys Ala Glu Ile Ala Ala Ala Ala Leu Leu Glx Leu Gly
1 5 10 15

Pro Gly Asn Pro Gly His Arg Leu Leu Arg Glu Cys Ile 20 25

- (2) INFORMATION FOR SEQ ID NO:144:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 29 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:144:

Tyr Cys Val Cys Ile Ala Ala Gly Lys Gly Asn Gly Tyr Trp Gly
1 10 15

Gln Gly Thr Leu Val Thr Val Ser Ser Gly Ser Ala Ser 20 25

- (2) INFORMATION FOR SEQ ID NO:145:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 25 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:145:

Tyr Cys Ala Arg Gln Asn Trp Gly Asp Tyr Trp Gly Gln Gly Thr Leu 1 5 10 15

Val Thr Val Ser Ser Gly Ser Ala Ser 20 25

- (2) INFORMATION FOR SEQ ID NO:146:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 42 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA

(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:146:	
TCAGTGAA	GG TTTCCTGCAA GGCATCTGGA TACACCTTCA CC	42
(2) INFO	RMATION FOR SEQ ID NO:147:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:147:	
TCCCTGAG	AC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GT	42
(2) INFO	RMATION FOR SEQ ID NO:148:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:148:	
GGCCGCAT	CC CGGGTCTCGA GGTCGACAAG CTTTCGAGGA TCCGC	45
(2) INFO	PRMATION FOR SEQ ID NO:149:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
, ,	MOLECULE TYPE: DNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:149:	
GGCCGCGG	BAT CCTCGAAAGC TTGTCGACCT CGAGACCCGG GATGC	45
(2) INFO	ORMATION FOR SEQ ID NO:150:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:150:	
GGCCGCTGTC GACAAGCTTA TCGATGGATC CTCGAGTGC	39
(2) INFORMATION FOR SEQ ID NO:151:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 39 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:151:	
GGCCGCACTC GAGGATCCAT CGATAAGCTT GTCGACAGC	39
(2) INFORMATION FOR SEQ ID NO:152:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 42 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:152:	
CACCTTCGGC CAAGGGACAC GACTGGAGAT TAAACGTAAG CA	42
(2) INFORMATION FOR SEQ ID NO:153:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:153:	
AGGTTCAGTG GCAGTGGGTC TGGGACAGAC TTCACTCTCA CCATCAGC	48
(2) INFORMATION FOR SEQ ID NO:154:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 36 base pairs(B) TYPE: nucleic acid	

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:154:	
GATCCTCGAG ACCAGGTACC AGATCTTGTG AATTCG	36
(2) INFORMATION FOR SEQ ID NO:155:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:155:	
TCGACGAATT CACAAGATCT GGTACCTGGT CTCGAG	36
(2) INFORMATION FOR SEQ ID NO:156:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:156:	
CGCGGTACCG AGAGTCAGTC CTTCCCAAAT GTC	33
(2) INFORMATION FOR SEQ ID NO:157:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:157:	
CGCCTCGAGA CAGCTGGAAT GGGCACATGC AGA	33
(2) INFORMATION FOR SEQ ID NO:158:	

(, () ()	QUENCE CHARACTERISTICS: A) LENGTH: 33 base pairs B) TYPE: nucleic acid C) STRANDEDNESS: single D) TOPOLOGY: linear	
(ii) MO	LECULE TYPE: DNA	
(xi) SE	QUENCE DESCRIPTION: SEQ ID NO:158:	
CGCGGTACCG	CTGATGCTGC ACCAACTGTA TCC	33
(2) INFORMA	TION FOR SEQ ID NO:159:	
(, (,	QUENCE CHARACTERISTICS: A) LENGTH: 33 base pairs B) TYPE: nucleic acid C) STRANDEDNESS: single D) TOPOLOGY: linear	
(ii) MO	LECULE TYPE: DNA	
(xi) SE	QUENCE DESCRIPTION: SEQ ID NO:159:	
CGCCTCGAGC	TAACACTCAT TCCTGTTGAA GCT	33
(2) INFORMA	TION FOR SEQ ID NO:160:	
(QUENCE CHARACTERISTICS: A) LENGTH: 33 base pairs B) TYPE: nucleic acid C) STRANDEDNESS: single D) TOPOLOGY: linear	
(ii) MO	LECULE TYPE: DNA	
(xi) SE	QUENCE DESCRIPTION: SEQ ID NO:160:	
GGCGCTCGAG	CTGGACAGGG MTCCAKAGTT CCA	33
(2) INFORMA	TION FOR SEQ ID NO:161:	
(QUENCE CHARACTERISTICS: A) LENGTH: 33 base pairs B) TYPE: nucleic acid C) STRANDEDNESS: single D) TOPOLOGY: linear	
(ii) MO	DLECULE TYPE: DNA	
(xi) SE	QUENCE DESCRIPTION: SEQ ID NO:161:	
CCACACTCTG	CATGCTGCAG AAGCTTTTCT GTA	33

(2) INF	FORMATION FOR SEQ ID NO:162:	
(i	(A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi	.) SEQUENCE DESCRIPTION: SEQ ID NO:162:	
GGTGACT	CGAG GTACCTTGAC CCCAGTAGTC CAG	33
(2) INF	FORMATION FOR SEQ ID NO:163:	
(i	(A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi	SEQUENCE DESCRIPTION: SEQ ID NO:163:	
GGTTACC	CTCA GTCACCGTCT CCTCAGAGGT AAGAATGGCC TC	42
(2) INF	FORMATION FOR SEQ ID NO:164:	
(i	A) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:164:	
AGGCTCC	CACC AGACCTCTCT AGACAGCAAC TAC	33
(2) INF	FORMATION FOR SEQ ID NO:165:	
i)	i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 51 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii	i) MOLECULE TYPE: DNA	

	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:165:	
TGGC	GGTCAAG GAACCTCAGT CACCGTCTCC TCAGGTAAGA ATGGCCTCTC C	51
(2)	INFORMATION FOR SEQ ID NO:166:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: peptide	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:166:	
	Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser 1 5 10	•
(2)	INFORMATION FOR SEQ ID NO:167:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 53 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:167:	
TGG	GGTCAAG GTACCTCAGT CACCGTCTCC TCAGAGGTAA GAATGGCCTC TCC	53
(2)	INFORMATION FOR SEQ ID NO:168:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: peptide	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:168:	
	Trp Gly Gln Gly Thr Ser Val Thr Val Ser Ser Glu 1 5 10	
(2)	INFORMATION FOR SEQ ID NO:169:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 46 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	

(D) TOPOLOGY: linear

(2) INFORMATION FOR SEQ ID NO:173:

(ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:169:
CTGGTCCTCA GAGAGTCAGT CCTTCCCAAA TGTCTTCCCC CTCGTC 46
(2) INFORMATION FOR SEQ ID NO:170:
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: peptide
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:170:
Glu Ser Gln Ser Phe Pro Asn Val Phe Pro Leu Val 1 5 10
(2) INFORMATION FOR SEQ ID NO:171:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:171:
CTGGTCCTCA GAGTCAGTCC TTCCCGAATG TCTTCCCCCT CGTC 4
(2) INFORMATION FOR SEQ ID NO:172:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 11 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: peptide
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:172:
Ser Gln Ser Phe Pro Asn Val Phe Pro Leu Val 1 5 10

	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
	, ,	SEQUENCE DESCRIPTION: SEQ ID NO:173:	20
TAGA	AAGGA.	AT TCAGCAGGCA CACAACAGAG GCAGTTCCA	39
(2)	INFO	RMATION FOR SEQ ID NO:174:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:174:	
AGC	TCTC	GA GCTCCTGCTG CTCTGTTTCC CAGGTGCC	38
(2)	INFO	RMATION FOR SEQ ID NO:175:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:175:	
CAG	CTTCT	CG AGCTCCTGCT ACTCTGGCTC MCAGATACC	39
(2)	INFO	RMATION FOR SEQ ID NO:176:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 39 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:176:	

TATTACTGTG CGAGGGCTCC AACTGGGGAC TGGTTCGAC

(2)	INFORMATION FOR SEQ ID NO:177:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 amino acids (B) TYPE: amino acid (C) STRANDEDNESS: (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: peptide	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:177:	
	Tyr Tyr Cys Ala Arg Ala Pro Thr Gly Asp Trp Phe Asp 1 5 10	
(2)	INFORMATION FOR SEQ ID NO:178:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:178:	
TATA	AATAGTT ACCCTCCTAC TTTCGGC	27
(2)	INFORMATION FOR SEQ ID NO:179:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 9 amino acids(B) TYPE: amino acid(C) STRANDEDNESS:(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: peptide	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:179:	
	Tyr Asn Ser Tyr Pro Pro Thr Phe Gly 1 5	
(2)	INFORMATION FOR SEQ ID NO:180:	•
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:180:	
GGCGCGCCTT GGCCTAAGAG GCCA	24
(2) INFORMATION FOR SEQ ID NO:181:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 24 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:181:	
CCTCTTAGGC CAAGGCGCGC CTGG	24
(2) INFORMATION FOR SEQ ID NO:182:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:182:	
AATTCAGTAT CGATGTGGTA C	21
(2) INFORMATION FOR SEQ ID NO:183:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 13 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:183:	
CACATCGATA CTG	13
(2) INFORMATION FOR SEQ ID NO:184:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

(D) TOPOLOGY: linear

	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:184:	
GTTT	GCAGGT GTCCAGTGTS AGGTGCAGCT GKTGGAGTCY SG	42
(2)	INFORMATION FOR SEQ ID NO:185:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:185:	
CCGG'	TCGACC CG	12
(2)	INFORMATION FOR SEQ ID NO:186:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 22 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:186:	
TCAC	AAGCCC AGCAACACCA AG	22
(2)	INFORMATION FOR SEQ ID NO:187:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 24 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:187:	
AAAA	GCCAGA AGACCCTCTC CCTG	24
(2)	INFORMATION FOR SEQ ID NO:188:	
	(i) SEQUENCE CHARACTERISTICS:	

	(A) LENGTH: 19 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:188:	
CAAT	AGGGGT CATGGACCC	19
(2)	INFORMATION FOR SEQ ID NO:189:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:189:	
TCAT	TCTGTG CAGAGTTGGC	20
(2)	INFORMATION FOR SEQ ID NO:190:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:190:	
GTCC	CAGAATT CGGTBCAGCT GGTGSAGTCT GG	32
(2)	INFORMATION FOR SEQ ID NO:191:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 32 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:191:	
GGTT	TCTCGA GGAAGAGGAA GACTGACGGT CC	32

(2)	INFORMATION FOR SEQ ID NO:192:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:192:	
GAC	TCCAGC TGACCCAGTC TCC	23
(2)	INFORMATION FOR SEQ ID NO:193:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:	
GAT	TTCAGC TGACTCAGTC TCC	23
(2)	INFORMATION FOR SEQ ID NO:194:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:	
GAA	TTCAGC TGACGCAGTC TCC	23
(2)	INFORMATION FOR SEQ ID NO:195:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:195:	
GAAACGCAGC TGACGCAGTC TCC	23
(2) INFORMATION FOR SEQ ID NO:196:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 35 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:196:	
GCAAGCTTCT GTCCCAGACC CACTGCCACT GAACC	35
(2) INFORMATION FOR SEQ ID NO:197:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:197:	
CGGTTAACAT AGCCCTGGGA CGAGAC	26
(2) INFORMATION FOR SEQ ID NO:198:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:198:	
GGGTTAACTC ATTGCCTCCA AAGCAC	26
(2) INFORMATION FOR SEQ ID NO:199:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 413 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:199:	
TGCACAAGAA CATGAAACAC CTGTGGTTCT TCCTCCTCCT GGTGGCAGCT CCCAGATGGG	60
TCCTGTCCCA GGTGCAGCTT CATCAGTGGG GCGCAGGACT GTTGAAGCCT TCGGAGACCC	120
TGTCCCTCAC CTGCGCTGTC TATGGTGGGT CCTTCAGTGG TTACTTCTGG AGCTGGATCC	180
GCCAGCCCCC AGGGAGGGGG CTGGAGTGGA TTGGGGAAAT CCATCATCGT GGAAGCACCA	240
ACTACAACCC GTCCCTCGAG AGTCGAGTCA CCCTATCAGT AGACACGTCC AAAAACCAGT	300
TCTCCCTGAG GCTGAGTTCT GTGACCGCCG CGGACACGGC TGTGTATTAC TGTGCGAGAG	360
ACATTACTAT GGTTCGGGGA GTACCTCACT GGGGCCAGGG AACCCTGGTC ACC	413
(2) INFORMATION FOR SEQ ID NO:200: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 153 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:200:	
GACAGACTTC ACTCTCACCA TCAGCAGACT GGAGCCTGAA GATTTTGCAG TGTATTACTG	60
TCAGCAGTAT GGTAGCTCAC CCCTCACTTT CGGCGGAGGG ACCAAGGTGG AGATCAAACG	120
AACTGTGGCG GCACCATCTG TCTTCATCTT CCC	153
(2) INFORMATION FOR SEQ ID NO:201:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 414 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:201:	
TCCACCATCA TGGGGTCAAC CGCCATCCTC GCCCTCCTCC TGGCTGTTCT CCAAGGAGTC	60
TOTGOCGAGG TGCAGCTGGT GCAGTCTGGA GCAGAGGTGA AAAAGCCCGG GGAGTCTCTG	120

AAGATCTCCT GTAAGGGTTC TGGATACAGC TTTACCAGTT ACTGGATCGC CTGGGTGCGC

CAGATGCCCG GGAAAGGCCT GGAGTGGATG GGGATCATCG ATCCTGCTGA CTCTGATACC

180

240

CGTCCTTCCA	AGGCCAGGTC	ACCATCTCAG	CCGACAAGTC	CATCAGTACC	300
AGTGGAGCAG	CCTGAAGGCC	TCGGACACCG	CCATGTATTA	CTGTGCGAGA	360
GGAACTGGTA	CTTCGTTCTC	TGGGGCCGTG	GCACCCTGGT	CACT	414
	AGTGGAGCAG	AGTGGAGCAG CCTGAAGGCC	AGTGGAGCAG CCTGAAGGCC TCGGACACCG	AGTGGAGCAG CCTGAAGGCC TCGGACACCG CCATGTATTA	CGTCCTTCCA AGGCCAGGTC ACCATCTCAG CCGACAAGTC CATCAGTACC AGTGGAGCAG CCTGAAGGCC TCGGACACCG CCATGTATTA CTGTGCGAGA GGAACTGGTA CTTCGTTCTC TGGGGCCGTG GCACCCTGGT CACT

(2) INFORMATION FOR SEQ ID NO:202:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 156 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:202:

GACAGATTTC ACTCTCACCA TCAGCAGCCT GCAGCCTGAA GATTTTGCAA CTTATTACTG 60

TCAACAGTTT ATTAGTTACC CTCAGCTCAC TTTCGGCGGA GGGACCAGGG TGGAGATCAA 120

ACGAACTGTG GCTGCACCAT CTGTCTTCAT CTTCCC 156

(2) INFORMATION FOR SEQ ID NO:203:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 404 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:203:

TGCACAAGAA CATGAAACAC CTGTGGTTCT TCCTCCTCT GGTGGCAGCT CCCAGATGGG 60

TCCTGTCCCA GGTGCAGCTA CAGCAGTGGG GCGCAGGACT GTTGAAGCCT TCGGAGACCC 120

TGTCCCTCAC CTGCGCTGTC TATGGTGGGT CCTTCAGTGG TTACTACTGG AGCTGGATCC 180

GCCAGCCCCC AGGTAAGGGG CTGGAGTGGA TTGGGGAAAT CAATCATAGT GGAAGCACCA 240

ACTACAACCC GTCCCTCAAG AGTCGAGTCA CCATATCAGT CGACACGTCC AAGAACCAGT 300

TCTCCCTGAA ACTGAGCTCT GTGACCGCCG CGGACACGGC TGTGTATTAC TGTGCGAGAG 360

TAATTAATTG GTTCGACCCC TGGGGCCAGG GAACCCTGGT CACC 404

(2) INFORMATION FOR SEQ ID NO:204:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 153 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:204:	
GACAGATTTC ACTCTCACCA TCAGCAGCCT GCAGCCTGAA GATTTTGCAA CTTACTATTG	60
TCAACAGGCT AATAGTTTCC CGTACACTTT TGGCCAGGGG ACCAAGCTGG AGATCAAACG	120
AACTGTGGCT GCACCATCTG TCTTCATCTT CCC	153
(2) INFORMATION FOR SEQ ID NO:205: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 403 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:205:	
ATGAAACACC TGTGGTTCTT CCTCCTCCTG GTGGCAGCTC CCAGATGGGT CCTGTCCCAG	60
GTGCAGCTAC AGCAGTGGGG CGCAGGACTG TTGAAGCCTT CGGAGACCCT GTCCCTCACC	120
TGCGCTGTCT ATGGTGGGTC CTTCAGTGGT TACTACTGGA GCTGGATCCG CCAGCCCCCA	180
GGTAAGGGGC TGGAGTGGAT TGGGGAAATC AATCATAGTG GAAGCACCAA CTACAACCCG	240
TCCCTCAAGA GTCGAGTCAC CATATCAGTC GACACGTCCA AGAACCAGTT CTCCCTGAAG	300
CTGAGCTCTG TGACCGCCGC GGACACGGCT GTGTATTACT GTGCGAGAGT AATTAATTGG	360
TTCGACCCCT GGGGCCAGGG AACCCTGGTC ACCGTCTCCT CAG	403
(2) INFORMATION FOR SEQ ID NO:206: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 388 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:206:	
ATGGACATGA TGGTCCCCGC TCAGCTCCTG GGGCTCCTGC TGCTCTGGTT CCCAGGTTCC	60
AGATGCGACA TCCAGATGAC CCAGTCTCCA TCTTCCGTGT CTGCATCTGT AGGAGACAGA	120

GTCACCATCA CTTGTCGGGC GAGTCAGGAT ATTAGCAGCT GGTTAGCCTG GTATCAGCAT

180

AAACCAGGGA	AAGCCCCTAA	GCTCCTGATC	TATGCTGCAT	CCAGTTTGCA	AAGTGGGGTC	240
CCATCAAGGT	TCAGCGGCAG	TGGATCTGGG	ACAGATTTCA	CTCTCACCAT	CAGCAGCCTG	300
CAGCCTGAAG	ATTTTGCAAC	TTACTATTGT	CAACAGGCTA	ATAGTTTCCC	GTACACTTTT	360
GGCCAGGGGA	CCAAGCTGGA	GATCAAAC				388

(2) INFORMATION FOR SEQ ID NO:207:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 462 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:207:

60 ATGGGGTCAA CCGCCATCCT CGCCCTCCTC CTGGCTGTTC TCCAAGGAGT CTGTGCCGAG GTGCAGCTGG TGCAGTCTGG AGCAGAGGTG AAAAAGCCCG GGGAGTCTCT GAAGATCTCC 120 TGTAAGGGTT CTGGATACAG CTTTACCGGC TACTGGATCG GCTGGGTGCG CCAGATGCCC 180 GGGAAAGGCC TGGAGTGGAT GGGGATCATC TATCCTGGTG ACTCTGATAC CACATACAGC 240 CCGTCCTTCC AAGGCCAGGT CACCATCTCA GCCGACAAGT CCATCAGCAC CGCCTACCTG 300 CAGTGGAGCA GCCTGAAGGC CTCGGACACC GCCATGTATT ACTGTGCGAG AGACCAACTG 360 GGCCTCTTTG ACTACTGGGG CCAGGGAACC CTGGTCACCG TCTCCTCAGC CTCCACCAAG 420 GGCCCATCGG TCTTCCCCCT GGCACCCTCC TCCAAGAAGC TT 462

(2) INFORMATION FOR SEQ ID NO:208:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 439 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:208:

ATGGACATGG AGTTCCCCGT TCAGCTCCTG GGGCTCCTGC TGCTCTGTTT CCCAGGTGCC 60

AGATGTGACA TCCAGATGAC CCAGTCTCCA TCCTCACTGT CTGCATCTGT AGGAGACAGA 120

GTCACCATCA CTTGTCGGGC GAGTCAGGGT ATTAGCAGCT GGTTAGCCTG GTATCAGCAG 180

AAACCAGAGA AAGCCCCTAA GTCCCTGATC TATTCTGCAT CCAGTTTGCA AAGTGGGGTC 240

CCATCAAGGT TCAGCGGCAG TGGATCTGGG ACAGATTTCA CTCTCACCAT CAGCAGCCTG 300

CAGCCTGAAG ATTTTGCAAC TTATTACTGC CAACAGTATG ATAGTTACCC GTACACTTTT	360
GGCCAGGGGA CCAAGCTGGA GATCAAACGA ACTGTGGCTG CACCATCTGT CTTCATCTTC	420
CCGCCATCTG ATGAAGCTT	439
(2) INFORMATION FOR SEQ ID NO:209:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 10 amino acids (B) TYPE: amino acid	
(C) STRANDEDNESS:	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: peptide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:209:	
Asp Ile Thr Met Val Arg Gly Val Pro His 1 5 10	
(2) INFORMATION FOR SEQ ID NO:210:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 9 amino acids	
(B) TYPE: amino acid(C) STRANDEDNESS:	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: peptide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:210:	
Gln Gln Tyr Gly Ser Ser Pro Leu Thr	
1 5	
(2) INDODWARION FOR CEO ID NO. 211.	
(2) INFORMATION FOR SEQ ID NO:211:	
(i) SEQUENCE CHARACTERISTICS:	
(A) LENGTH: 10 amino acids (B) TYPE: amino acid	
(C) STRANDEDNESS:	
(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: peptide	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:211:	
Dre Ale Agn Trn Agn Trn Tur Dhe Wel Leu	
Pro Ala Asn Trp Asn Trp Tyr Phe Val Leu 1 5 10	

(2) INFORMATION FOR SEQ ID NO:212:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 10 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:212:

Gln Gln Phe Ile Ser Tyr Pro Gln Leu Thr 1 5 10

- (2) INFORMATION FOR SEQ ID NO:213:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 7 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:213:

Val Ile Asn Trp Phe Asp Pro 1 5

- (2) INFORMATION FOR SEQ ID NO:214:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:214:

Gln Gln Ala Asn Ser Phe Pro Tyr Thr

- (2) INFORMATION FOR SEQ ID NO:215:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: peptide
 - (xi) SEQUENCE DESCRIPTION: SEQ ID NO:215:

Asp Gln Leu Gly Leu Phe Asp Tyr 1

(2) INFORMATION FOR SEQ ID NO:216:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 9 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:216:

Gln Gln Tyr Asp Ser Tyr Pro Tyr Thr

(2) INFORMATION FOR SEQ ID NO:217:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3881 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:217:

60 TCTTCCGCTT CCTCGCTCAC TGACTCGCTG CGCTCGGTCG TTCGGCTGCG GCGAGCGGTA TCAGCTCACT CAAAGGCGGT AATACGGTTA TCCACAGAAT CAGGGGATAA CGCAGGAAAG 120 AACATGTGAG CAAAAGGCCA GCAAAAGGCC AGGAACCGTA AAAAGGCCGC GTTGCTGGCG 180 TTTTTCCATA GGCTCCGCCC CCCTGACGAG CATCACAAAA ATCGACGCTC AAGTCAGAGG 240 TGGCGAAACC CGACAGGACT ATAAAGATAC CAGGCGTTTC CCCCTGGAAG CTCCCTCGTG 300 CGCTCTCCTG TTCCGACCCT GCCGCTTACC GGATACCTGT CCGCCTTTCT CCCTTCGGGA 360 AGCGTGGCGC TTTCTCATAG CTCACGCTGT AGGTATCTCA GTTCGGTGTA GGTCGTTCGC 420 TCCAAGCTGG GCTGTGTGCA CGAACCCCCC GTTCAGCCCG ACCGCTGCGC CTTATCCGGT 480 540 AACTATCGTC TTGAGTCCAA CCCGGTAAGA CACGACTTAT CGCCACTGGC AGCAGCCACT GGTAACAGGA TTAGCAGAGC GAGGTATGTA GGCGGTGCTA CAGAGTTCTT GAAGTGGTGG 600 660 CCTAACTACG GCTACACTAG AAGGACAGTA TTTGGTATCT GCGCTCTGCT GAAGCCAGTT ACCTTCGGAA AAAGAGTTGG TAGCTCTTGA TCCGGCAAAC AAACCACCGC TGGTAGCGGT 720 GGTTTTTTTG TTTGCAAGCA GCAGATTACG CGCAGAAAAA AAGGATCTCA AGAAGATCCT 780

	TTGATCTTTT	CTACGGGGTC	TGACGCTCAG	TGGAACGAAA	ACTCACGTTA	AGGGATTTTG	840
-	GTCATGAGAT	TATCAAAAAG	GATCTTCACC	TAGATCCTTT	TAAATTAAAA	ATGAAGTTTT	900
	AAATCAATCT	AAAGTATATA	TGAGTAAACT	TGGTCTGACA	GTTACCAATG	CTTAATCAGT	960
	GAGGCACCTA	TCTCAGCGAT	CTGTCTATTT	CGTTCATCCA	TAGTTGCCTG	ACTCCCCGTC	1020
	GTGTAGATAA	CTACGATACG	GGAGGGCTTA	CCATCTGGCC	CCAGTGCTGC	AATGATACCG	1080
	CGAGACCCAC	GCTCACCGGC	TCCAGATTTA	TCAGCAATAA	ACCAGCCAGC	CGGAAGGGCC	1140
	GAGCGCAGAA	GTGGTCCTGC	AACTTTATCC	GCCTCCATCC	AGTCTATTAA	TTGTTGCCGG	1200
	GAAGCTAGAG	TAAGTAGTTC	GCCAGTTAAT	AGTTTGCGCA	ACGTTGTTGC	CATTGCTACA	1260
	GGCATCGTGG	TGTCACGCTC	GTCGTTTGGT	ATGGCTTCAT	TCAGCTCCGG	TTCCCAACGA	1320
	TCAAGGCGAG	TTACATGATC	CCCCATGTTG	TGCAAAAAAG	CGGTTAGCTC	CTTCGGTCCT	1380
	CCGATCGTTG	TCAGAAGTAA	GTTGGCCGCA	GTGTTATCAC	TCATGGTTAT	GGCAGCACTG	1440
	CATAATTCTC	TTACTGTCAT	GCCATCCGTA	AGATGCTTTT	CTGTGACTGG	TGAGTACTCA	1500
	ACCAAGTCAT	TCTGAGAATA	GTGTATGCGG	CGACCGAGTT	GCTCTTGCCC	GGCGTCAATA	1560
	CGGGATAATA	CCGCGCCACA	TAGCAGAACT	TTAAAAGTGC	TCATCATTGG	AAAACGTTCT	1620
	TCGGGGCGAA	AACTCTCAAG	GATCTTACCG	CTGTTGAGAT	CCAGTTCGAT	GTAACCCACT	1680
	CGTGCACCCA	ACTGATCTTC	AGCATCTTTT	ACTTTCACCA	GCGTTTCTGG	GTGAGCAAAA	1740
	ACAGGAAGGC	AAAATGCCGC	AAAAAAGGGA	ATAAGGGCGA	CACGGAAATG	TTGAATACTC	1800
•	ATACTCTTCC	TTTTTCAATA	TTATTGAAGC	ATTTATCAGG	GTTATTGTCT	CATGAGCGGA	1860
	TACATATTTG	AATGTATTTA	GAAAAATAAA	CAAATAGGGG	TTCCGCGCAC	ATTTCCCCGA	1920
	AAAGTGCCAC	CTGACGTCTA	AGAAACCATT	ATTATCATGA	CATTAACCTA	TAAAAATAGG	1980
	CGTATCACGA	GGCCCTTTCG	TCTCGCGCGT	TTCGGTGATG	ACGGTGAAAA	CCTCTGACAC	2040
	ATGCAGCTCC	CGGAGACGGT	CACAGCTTGT	CTGTAAGCGG	ATGCCGGGAG	CAGACAAGCC	2100
	CGTCAGGGCG	CGTCAGCGGG	TGTTGGCGGG	TGTCGGGGCT	GGCTTAACTA	TGCGGCATCA	2160
	GAGCAGATTG	TACTGAGAGT	GCACCATATG	CGGTGTGAAA	TACCGCACAG	ATGCGTAAGG	2220
	AGAAAATACC	GCATCAGGCG	CCATTCGCCA	TTCAGGCTGC	GCAACTGTTG	GGAAGGGCGA	2280
	TCGGTGCGGG	CCTCTTCGCT	ATTACGCCAG	CTGGCGAAAG	GGGGATGTGC	TGCAAGGCGA	2340
	TTAAGTTGGG	TAACGCCAGG	GTTTTCCCAG	TCACGACGTT	GTAAAACGAC	GGCCAGTGCC	2400
	AAGCTAGCGG	CCGCGGTCCA	ACCACCAATC	TCAAAGCTTG	GTACCCGGGA	GCCTGTTATC	2460
	CCAGCACAGT	CCTGGAAGAG	GCACAGGGGA	AATAAAAGCG	GACGGAGGCT	TTCCTTGACT	2520
	CAGCCGCTGC	CTGGTCTTCT	TCAGACCTGT	TCTGAATTCT	AAACTCTGAG	GGGGTCGGAT	2580
	GACGTGGCCA	TTCTTTGCCT	AAAGCATTGA	GTTTACTGCA	AGGTCAGAAA	AGCATGCAAA	2640

GCCCTCAGAA TGGCTGCAAA GAGCTCCAAC AAAACAATTT AGAACTTTAT TAAGGAATAG 2700 GGGGAAGCTA GGAAGAACT CAAAACATCA AGATTTTAAA TACGCTTCTT GGTCTCCTTG 2760 CTATAATTAT CTGGGATAAG CATGCTGTTT TCTGTCTGTC CCTAACATGC CCTGTGATTA 2820 TCCGCAAACA ACACACCCAA GGGCAGAACT TTGTTACTTA AACACCATCC TGTTTGCTTC 2880 TTTCCTCAGG AACTGTGGCT GCACCATCTG TCTTCATCTT CCCGCCATCT GATGAGCAGT 2940 TGAAATCTGG AACTGCCTCT GTTGTGTGCC TGCTGAATAA CTTCTATCCC AGAGAGGCCA 3000 AAGTACAGTG GAAGGTGGAT AACGCCCTCC AATCGGGTAA CTCCCAGGAG AGTGTCACAG 3060 AGCAGGACAG CAAGGACAGC ACCTACAGCC TCAGCAGCAC CCTGACGCTG AGCAAAGCAG 3.120 ACTACGAGAA ACACAAAGTC TACGCCTGCG AAGTCACCCA TCAGGGCCTG AGCTCGCCCG 3180 TCACAAAGAG CTTCAACAGG GGAGAGTGTT AGAGGGAGAA GTGCCCCCAC CTGCTCCTCA 3240 GTTCCAGCCT GACCCCCTCC CATCCTTTGG CCTCTGACCC TTTTTCCACA GGGGACCTAC 3300 CCCTATTGCG GTCCTCCAGC TCATCTTTCA CCTCACCCCC CTCCTCCT TTGGCTTTAA 3360 TTATGCTAAT GTTGGAGGAG AATGAATAAA TAAAGTGAAT CTTTGCACCT GTGGTTTCTC 3420 TCTTTCCTCA ATTTAATAAT TATTATCTGT TGTTTACCAA CTACTCAATT TCTCTTATAA 3480 GGGACTAAAT ATGTAGTCAT CCTAAGGCGC ATAACCATTT ATAAAAATCA TCCTTCATTC 3540 3600 TATTTTACCC TATCATCCTC TGCAAGACAG TCCTCCCTCA AACCCACAAG CCTTCTGTCC TCACAGTCCC CTGGGCCATG GATCCTCACA TCCCAATCCG CGGCCGCAAT TCGTAATCAT 3660 GGTCATAGCT GTTTCCTGTG TGAAATTGTT ATCCGCTCAC AATTCCACAC AACATACGAG 3720 CCGGAAGCAT AAAGTGTAAA GCCTGGGGTG CCTAATGAGT GAGCTAACTC ACATTAATTG 3780 CGTTGCGCTC ACTGCCCGCT TTCCAGTCGG GAAACCTGTC GTGCCAGCTG CATTAATGAA 3840 TCGGCCAACG CGCGGGGAGA GGCGGTTTGC GTATTGGGCG C 3881

(2) INFORMATION FOR SEQ ID NO:218:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 4723 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:218:

GAACTCGAGC AGCTGAAGCT TTCTGGGGCA GGCCAGGCCT GACCTTGGCT TTGGGGCAGG 60
GAGGGGGCTA AGGTGAGGCA GGTGGCGCCA GCCAGGTGCA CACCCAATGC CCATGAGCCC 120

AGACACTGGA	CGCTGAACCT	CGCGGACAGT	TAAGAACCCA	GGGGCCTCTG	CGCCCTGGGC	180
CCAGCTCTGT	CCCACACCGC	GGTCACATGG	CACCACCTCT	CTTGCAGCCT	CCACCAAGGG	240
CCCATCGGTC	TTCCCCCTGG	CACCCTCCTC	CAAGAGCACC	TCTGGGGGCA	CAGCGGCCCT	300
GGGCTGCCTG	GTCAAGGACT	ACTTCCCCGA	ACCGGTGACG	GTGTCGTGGA	ACTCAGGCGC	360
CCTGACCAGC	GGCGTGCACA	CCTTCCCGGC	TGTCCTACAG	TCCTCAGGAC	TCTACTCCCT	420
CAGCAGCGTG	GTGACCGTGC	CCTCCAGCAG	CTTGGGCACC	CAGACCTACA	TCTGCAACGT	480
GAATCACAAG	CCCAGCAACA	CCAAGGTGGA	CAAGAAAGTT	GGTGAGAGGC	CAGCACAGGG	540
AGGGAGGGTG	TCTGCTGGAA	GCCAGGCTCA	GCGCTCCTGC	CTGGACGCAT	CCCGGCTATG	600
CAGCCCCAGT	CCAGGGCAGC	AAGGCAGGCC	CCGTCTGCCT	CTTCACCCGG	AGGCCTCTGC	660
CCGCCCCACT	CATGCTCAGG	GAGAGGGTCT	TCTGGCTTTT	TCCCCAGGCT	CTGGGCAGGC	720
ACAGGCTAGG	TGCCCCTAAC	CCAGGCCCTG	CACACAAAGG	GGCAGGTGCT	GGGCTCAGAC	780
CTGCCAAGAG	CCATATCCGG	GAGGACCCTG	CCCCTGACCT	AAGCCCACCC	CAAAGGCCAA	840
ACTCTCCACT	CCCTCAGCTC	GGACACCTTC	TCTCCTCCCA	GATTCCAGTA	ACTCCCAATC	900
TTCTCTCTGC	AGAGCCCAAA	TCTTGTGACA	AAACTCACAC	ATGCCCACCG	TGCCCAGGTA	960
AGCCAGCCCA	GGCCTCGCCC	TCCAGCTCAA	GGCGGGACAG	GTGCCCTAGA	GTAGCCTGCA	1020
TCCAGGGACA	GGCCCCAGCC	GGGTGCTGAC	ACGTCCACCT	CCATCTCTTC	CTCAGCACCT	1080
GAACTCCTGG	GGGGACCGTC	AGTCTTCCTC	TTCCCCCCAA	AACCCAAGGA	CACCCTCATG	1140
ATCTCCCGGA	CCCCTGAGGT	CACATGCGTG	GTGGTGGACG	TGAGCCACGA	AGACCCTGAG	1200
GTCAAGTTCA	ACTGGTACGT	GGACGGCGTG	GAGGTGCATA	ATGCCAAGAC	AAAGCCGCGG	1260
GAGGAGCAGT	ACAACAGCAC	GTACCGTGTG	GTCAGCGTCC	TCACCGTCCT	GCACCAGGAC	1320
TGGCTGAATG	GCAAGGAGTA	CAAGTGCAAG	GTCTCCAACA	AAGCCCTCCC	AGCCCCCATC	1380
GAGAAAACCA	TCTCCAAAGC	CAAAGGTGGG	ACCCGTGGGG	TGCGAGGGCC	ACATGGACAG	1440
AGGCCGGCTC	GGCCCACCCT	CTGCCCTGAG	AGTGACCGCT	GTACCAACCT	CTGTCCCTAC	1500
AGGGCAGCCC	CGAGAACCAC	AGGTGTACAC	CCTGCCCCCA	TCCCGGGATG	AGCTGACCAA	1560
GAACCAGGTC	AGCCTGACCT	GCCTGGTCAA	AGGCTTCTAT	CCCAGCGACA	TCGCCGTGGA	1620
GTGGGAGAGC	AATGGGCAGC	CGGAGAACAA	CTACAAGACC	ACGCCTCCCG	TGCTGGACTC	1680
CGACGGCTCC	TTCTTCCTCT	ACAGCAAGCT	CACCGTGGAC	AAGAGCAGGT	GGCAGCAGGG	1740
GAACGTCTTC	TCATGCTCCG	TGATGCATGA	GGCTCTGCAC	AACCACTACA	CGCAGAAGAG	1800
CCTCTCCCTG	TCTCCGGGTA	AATGAGTGCG	ACGGCCGGCA	AGCCCCCGCT	CCCCGGGCTC	1860
TCGCGGTCGC	ACGAGGATGC	TTGGCACGTA	CCCCCTGTAC	ATACTTCCCG	GGCGCCCAGC	1920
ATGGAAATAA	AGCACCCAGC	GCTGCCCTGG	GCCCTGCGA	GACTGTGATG	GTTCTTTCCA	1980

CGGGTCAGGC	CGAGTCTGAG	GCCTGAGTGG	CATGAGGGAG	GCAGAGCGGG	TCCCACTGTC	2040
CCCACACTGG	CCCAGGCTGT	GCAGGTGTGC	CTGGGCCCCC	TAGGGTGGGG	CTCAGCCAGG	2100
GGCTGCCCTC	GGCAGGGTGG	GGGATTTGCC	AGCGTGGCCC	TCCCTCCAGC	AGCACCTGCC	2160
CTGGGCTGGG	CCACGGGAAG	CCCTAGGAGC	CCCTGGGGAC	AGACACACAG	CCCCTGCCTC	2220
TGTAGGAGAC	TGTCCTGTTC	TGTGAGCGCC	CCTGTCCTCC	CGACCTCCAT	GCCCACTCGG	2280
GGGCATGCCT	GCAGGTCGAC	TCTAGAGGAT	CCCCGGGTAC	CGAGCTCGAA	TTCATCGATG	2340
ATATCAGATC	TGCCGGTCTC	CCTATAGTGA	GTCGTATTAA	TTTCGATAAG	CCAGGTTAAC	2400
CTGCATTAAT	GAATCGGCCA	ACGCGCGGGG	AGAGGCGGTT	TGCGTATTGG	GCGCTCTTCC	2460
GCTTCCTCGC	TCACTGACTC	GCTGCGCTCG	GTCGTTCGGC	TGCGGCGAGC	GGTATCAGCT	2520
CACTCAAAGG	CGGTAATACG	GTTATCCACA	GAATCAGGGG	ATAACGCAGG	AAAGAACATG	2580
TGAGCAAAAG	GCCAGCAAAA	GGCCAGGAAC	CGTAAAAAGG	CCGCGTTGCT	GGCGTTTTTC	2640
CATAGGCTCC	GCCCCCTGA	CGAGCATCAC	AAAAATCGAC	GCTCAAGTCA	GAGGTGGCGA	2700
AACCCGACAG	GACTATAAAG	ATACCAGGCG	TTTCCCCCTG	GAAGCTCCCT	CGTGCGCTCT	2760
CCTGTTCCGA	CCCTGCCGCT	TACCGGATAC	CTGTCCGCCT	TTCTCCCTTC	GGGAAGCGTG	2820
GCGCTTTCTC	AATGCTCACG	CTGTAGGTAT	CTCAGTTCGG	TGTAGGTCGT	TCGCTCCAAG	2880
CTGGGCTGTG	TGCACGAACC	CCCCGTTCAG	CCCGACCGCT	GCGCCTTATC	CGGTAACTAT	2940
CGTCTTGAGT	CCAACCCGGT	AAGACACGAC	TTATCGCCAC	TGGCAGCAGC	CACTGGTAAC	3000
AGGATTAGCA	GAGCGAGGTA	TGTAGGCGGT	GCTACAGAGT	TCTTGAAGTG	GTGGCCTAAC	3060
TACGGCTACA	CTAGAAGGAC	AGTATTTGGT	ATCTGCGCTC	TGCTGAAGCC	AGTTACCTTC	3120
GGAAAAAGAG	TTGGTAGCTC	TTGATCCGGC	AAACAAACCA	CCGCTGGTAG	CGGTGGTTTT	3180
TTTGTTTGCA	AGCAGCAGAT	TACGCGCAGA	AAAAAAGGAT	CTCAAGAAGA	TCCTTTGATC	3240
TTTTCTACGG	GGTCTGACGC	TCAGTGGAAC	GAAAACTCAC	GTTAAGGGAT	TTTGGTCATG	3300
AGATTATCAA	AAAGGATCTT	CACCTAGATC	CTTTTAAATT	AAAAATGAAG	TTTTAAATCA	3360
ATCTAAAGTA	TATATGAGTA	AACTTGGTCT	GACAGTTACC	AATGCTTAAT	CAGTGAGGCA	3420
CCTATCTCAG	CGATCTGTCT	ATTTCGTTCA	TCCATAGTTG	CCTGACTCCC	CGTCGTGTAG	3480
ATAACTACGA	TACGGGAGGG	CTTACCATCT	GGCCCCAGTG	CTGCAATGAT	ACCGCGAGAC	3540
CCACGCTCAC	CGGCTCCAGA	TTTATCAGCA	ATAAACCAGC	CAGCCGGAAG	GGCCGAGCGC	3600
AGAAGTGGTC	CTGCAACTTT	ATCCGCCTCC	ATCCAGTCTA	TTAATTGTTG	CCGGGAAGCT	3660
AGAGTAAGTA	GTTCGCCAGT	TAATAGTTTG	CGCAACGTTG	TTGCCATTGC	TACAGGCATC	3720
GTGGTGTCAC	GCTCGTCGTT	TGGTATGGCT	TCATTCAGCT	CCGGTTCCCA	ACGATCAAGG	3780

CGAGTTACAT	GATCCCCCAT	GTTGTGCAAA	AAAGCGGTTA	GCTCCTTCGG	TCCTCCGATC	3840
GTTGTCAGAA	GTAAGTTGGC	CGCAGTGTTA	TCACTCATGG	TTATGGCAGC	ACTGCATAAT	3900
TCTCTTACTG	TCATGCCATC	CGTAAGATGC	TTTTCTGTGA	CTGGTGAGTA	CTCAACCAAG	3960
TCATTCTGAG	AATAGTGTAT	GCGGCGACCG	AGTTGCTCTT	GCCCGGCGTC	AATACGGGAT	4020
AATACCGCGC	CACATAGCAG	AACTTTAAAA	GTGCTCATCA	TTGGAAAACG	TTCTTCGGGG	4080
CGAAAACTCT	CAAGGATCTT	ACCGCTGTTG	AGATCCAGTT	CGATGTAACC	CACTCGTGCA	4140
CCCAACTGAT	CTTCAGCATC	TTTTACTTTC	ACCAGCGTTT	CTGGGTGAGC	AAAAACAGGA	4200
AGGCAAAATG	CCGCAAAAA	GGGAATAAGG	GCGACACGGA	AATGTTGAAT	ACTCATACTC	4260
TTCCTTTTTC	AATATTATTG	AAGCATTTAT	CAGGGTTATT	GTCTCATGAG	CGGATACATA	4320
TTTGAATGTA	TTTÄGAAAAA	TAAACAAATA	GGGGTTCCGC	GCACATTTCC	CCGAAAAGTG	4380
CCACCTGACG	TCTAAGAAAC	CATTATTATC	ATGACATTAA	CCTATAAAAA	TAGGCGTATC	4440
ACGAGGCCCT	TTCGTCTCGC	GCGTTTCGGT	GATGACGGTG	AAAACCTCTG	ACACATGCAG	4500
CTCCCGGAGA	CGGTCACAGC	TTGTCTGTAA	GCGGATGCCG	GGAGCAGACA	AGCCCGTCAG	4560
GGCGCGTCAG	CGGGTGTTGG	CGGGTGTCGG	GGCTGGCTTA	ACTATGCGGC	ATCAGAGCAG	4620
ATTGTACTGA	GAGTGCACCA	TATGGACATA	TTGTCGTTAG	AACGCGGCTA	CAATTAATAC	4680
ATAACCTTAT	GTATCATACA	CATACGATTT	AGGTGACACT	ATA		4723

(2) INFORMATION FOR SEQ ID NO:219:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 524 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:219:

AAGCTTGCCA CCATGAAACA CCTGTGGTTC TTCCTCCTCC TGGTGGCAGC TCCTAGATGG 60 GTCCTGTCTC AGGTGCAGCT ACAGCAGTGG GGCGCAGGAC TGTTGAAGCC TTCGGAGACC 120 CTGTCCCTCA CCTGCGCTGT CTATGGTGGT TCCTTCAGTG GTTACTACTG GAGCTGGATC 180 CGCCAGCCAC CAGGTAAGGG TCTGGAGTGG ATTGGTGAAA TCAATCATAG TGGAAGCACC **240** AACTACAACC CGTCTCTCAA GAGTCGAGTC ACCATATCAG TAGACACGTC CAAGAACCAG 300 TTCTCTCTGA AACTGAGCTC TGTGACCGCT GCGGACACGG CTGTGTATTA CTGTGCGAGA 360 GTAATTAATT GGTTCGACCC TTGGGGCCAG GGAACCCTGG TCACCGTCTC CTCAGCCTCA 420 ACCAAGGGCC CATCGGTCTT CCCCCTGGCA CCCTCCTCCA AGAGCACCTC TGGGGGCACA 480

GCGGCCCTGG GCTGCCTGGT CAAGGACTAC TTCCCCGAAC CGGT	524
(2) INFORMATION FOR SEQ ID NO:220:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 420 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:220:	
AAGCTTGCCA CCATGATGGT CCCAGCTCAG CTCCTCGGTC TCCTGCTGCT CTGGTTCCCA	60
GGTTCCAGAT GCGACATCCA GATGACCCAG TCTCCATCTT CCGTGTCTGC ATCTGTAGGA	120
GACAGAGTCA CCATCACTTG TCGGGCGAGT CAGGATATTA GCAGCTGGTT AGCCTGGTAT	180
CAGCATAAAC CAGGTAAAGC ACCTAAGCTC CTGATCTATG CTGCATCCAG TTTGCAAAGT	240
GGTGTCCCAT CAAGGTTCAG CGGAAGTGGA TCTGGGACAG ATTTCACTCT CACCATCAGC	300
AGCCTGCAGC CTGAAGATTT TGCAACTTAC TATTGTCAAC AGGCTAATAG TTTCCCGTAC	360
ACTTTTGGTC AGGGAACCAA GCTGGAGATC AAACGAACTG TGGCTGCACC ATCTGTCTTC	420
(2) INFORMATION FOR SEQ ID NO:221: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:221:	
ATGGTCCCAG CTCAGCTCCT CGGTCTCCTG CTGCTCTGGT TCCC	44
(2) INFORMATION FOR SEQ ID NO:222:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:222:

AGGTTCCAGA TGCGACATCC AGATGACCCA GTCTCCATCT TCCG	44
(2) INFORMATION FOR SEQ ID NO:223:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 44 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:223:	
TGTCTGCATC TGTAGGAGAC AGAGTCACCA TCACTTGTCG GGCG	44
(2) INFORMATION FOR SEQ ID NO:224:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:224:	
AGTCAGGATA TTAGCAGCTG GTTAGCCTGG TATCAGCATA AACC	44
(2) INFORMATION FOR SEQ ID NO:225:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 44 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:225:	
AGGTAAAGCA CCTAAGCTCC TGATCTATGC TGCATCCAGT TTGC	44
(2) INFORMATION FOR SEQ ID NO:226:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:226:	
AGGAGCTTAG GTGCTTTACC TGGTTTATGC TGATACCAGG CTAA	44
(2) INFORMATION FOR SEQ ID NO:227:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:227:	
CCAGCTGCTA ATATCCTGAC TCGCCCGACA AGTGATGGTG ACTC	44
(2) INFORMATION FOR SEQ ID NO:228:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 44 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:228:	
TGTCTCCTAC AGATGCAGAC ACGGAAGATG GAGACTGGGT CATC	44
(2) INFORMATION FOR SEQ ID NO:229:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:229:	
TGGATGTCGC ATCTGGAACC TGGGAACCAG AGCAGCAGGA GACC	44
(2) INFORMATION FOR SEQ ID NO:230:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(.	11) MOLECULE TYPE: DNA	
(:	xi) SEQUENCE DESCRIPTION: SEQ ID NO:230:	
GAGGA	GCTGA GCTGGGACCA TCATGGTGGC AAGCTTAGAG TC	42
(2) I	NFORMATION FOR SEQ ID NO:231:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 28 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(:	xi) SEQUENCE DESCRIPTION: SEQ ID NO:231:	
GACTC	TAAGC TTGCCACCAT GATGGTCC	28
(2) I	NFORMATION FOR SEQ ID NO:232:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:232:	
ACCTT	GATGG GACACCACTT TGCAAACTGG ATGCAGCATA GATC	44
(2) I	NFORMATION FOR SEQ ID NO:233:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:233:	
AAAGT	CGGTGT CCCATCAAGG TTCAGCGGAA GTGGATCTGG GACA	44
(2) I	NFORMATION FOR SEQ ID NO:234:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs	

		(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:234:	
GAT'	TTCACT	C TCACCATCAG CAGCCTGCAG CCTGAAGATT TTGC	44
(2)	INFOR	MATION FOR SEQ ID NO:235:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:235:	
AAC'	TTACTA	T TGTCAACAGG CTAATAGTTT CCCGTACACT TTTG	44
(2)	INFOR	MATION FOR SEQ ID NO:236:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:236:	
GTC	AGGGAA	AC CAAGCTGGAG ATCAAACGAA CTGTGGCTGC ACCA	44
(2)	INFOR	MATION FOR SEQ ID NO:237:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 37 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:237:	
TCT	GTCTTC	TA TCTTCCCGCC ATCTGATGAG CAGTTGA	37

(2) INFORMATION FOR SEQ ID NO:238:

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 40 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:238:	
GGGAAGATGA AGACAGATGG TGCAGCCACA GTTCGTTTGA	40
(2) INFORMATION FOR SEQ ID NO:239:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:239:	
TCTCCAGCTT GGTTCCCTGA CCAAAAGTGT ACGGGAAACT ATTA	44
(2) INFORMATION FOR SEQ ID NO:240:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:240:	
GCCTGTTGAC AATAGTAAGT TGCAAAATCT TCAGGCTGCA GGCT	44
(2) INFORMATION FOR SEQ ID NO:241:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:241:	
CCTGATGGTG AGAGTGAAAT CTGTCCCAGA TCCACTTCCG CTGA	44

(2) INFORMATION FOR SEQ ID NO:242:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 20 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:242:

TCAACTGCTC ATCAGATGGC

20

(2) INFORMATION FOR SEQ ID NO:243:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3819 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:243:

TCTTCCGCTT CCTCGCTCAC TGACTCGCTG CGCTCGGTCG TTCGGCTGCG GCGAGCGGTA 60 TCAGCTCACT CAAAGGCGGT AATACGGTTA TCCACAGAAT CAGGGGATAA CGCAGGAAAG 120 AACATGTGAG CAAAAGGCCA GCAAAAGGCC AGGAACCGTA AAAAGGCCGC GTTGCTGGCG 180 TTTTTCCATA GGCTCCGCCC CCCTGACGAG CATCACAAAA ATCGACGCTC AAGTCAGAGG 240 TGGCGAAACC CGACAGGACT ATAAAGATAC CAGGCGTTTC CCCCTGGAAG CTCCCTCGTG 300 CGCTCTCCTG TTCCGACCCT GCCGCTTACC GGATACCTGT CCGCCTTTCT CCCTTCGGGA 360 AGCGTGGCGC TTTCTCATAG CTCACGCTGT AGGTATCTCA GTTCGGTGTA GGTCGTTCGC 420 TCCAAGCTGG GCTGTGTGCA CGAACCCCCC GTTCAGCCCG ACCGCTGCGC CTTATCCGGT 480 AACTATCGTC TTGAGTCCAA CCCGGTAAGA CACGACTTAT CGCCACTGGC AGCAGCCACT 540 GGTAACAGGA TTAGCAGAGC GAGGTATGTA GGCGGTGCTA CAGAGTTCTT GAAGTGGTGG 600 CCTAACTACG GCTACACTAG AAGGACAGTA TTTGGTATCT GCGCTCTGCT GAAGCCAGTT 660 ACCTTCGGAA AAAGAGTTGG TAGCTCTTGA TCCGGCAAAC AAACCACCGC TGGTAGCGGT 720 GGTTTTTTTG TTTGCAAGCA GCAGATTACG CGCAGAAAAA AAGGATCTCA AGAAGATCCT 780 TTGATCTTTT CTACGGGGTC TGACGCTCAG TGGAACGAAA ACTCACGTTA AGGGATTTTG 840 GTCATGAGAT TATCAAAAAG GATCTTCACC TAGATCCTTT TAAATTAAAA ATGAAGTTTT 900

AAATCAATCT	AAAGTATATA	TGAGTAAACT	TGGTCTGACA	GTTACCAATG	CTTAATCAGT	960
GAGGCACCTA	TCTCAGCGAT	CTGTCTATTT	CGTTCATCCA	TAGTTGCCTG	ACTCCCCGTC	1020
GTGTAGATAA	CTACGATACG	GGAGGGCTTA	CCATCTGGCC	CCAGTGCTGC	AATGATACCG	1080
CGAGACCCAC	GCTCACCGGC	TCCAGATTTA	TCAGCAATAA	ACCAGCCAGC	CGGAAGGGCC	1140
GAGCGCAGAA	GTGGTCCTGC	AACTTTATCC	GCCTCCATCC	AGTCTATTAA	TTGTTGCCGG	1200
GAAGCTAGAG	TAAGTAGTTC	GCCAGTTAAT	AGTTTGCGCA	ACGTTGTTGC	CATTGCTACA	1260
GGCATCGTGG	TGTCACGCTC	GTCGTTTGGT	ATGGCTTCAT	TCAGCTCCGG	TTCCCAACGA	1320
TCAAGGCGAG	TTACATGATC	CCCCATGTTG	TGCAAAAAAG	CGGTTAGCTC	CTTCGGTCCT	1380
CCGATCGTTG	TCAGAAGTAA	GTTGGCCGCA	GTGTTATCAC	TCATGGTTAT	GGCAGCACTG	1440
CATAATTCTC	TTACTGTCAT	GCCATCCGTA	AGATGCTTTT	CTGTGACTGG	TGAGTACTCA	1500
ACCAAGTCAT	TCTGAGAATA	GTGTATGCGG	CGACCGAGTT	GCTCTTGCCC	GGCGTCAATA	1560
CGGGATAATA	CCGCGCCACA	TAGCAGAACT	TŢAAAAGTGC	TCATCATTGG	AAAACGTTCT	1620
TCGGGGCGAA	AACTCTCAAG	GATCTTACCG	CTGTTGAGAT	CCAGTTCGAT	GTAACCCACT	1680
CGTGCACCCA	ACTGATCTTC	AGCATCTTTT	ACTTTCACCA	GCGTTTCTGG	GTGAGCAAAA	1740
ACAGGAAGGC	AAAATGCCGC	AAAAAAGGGA	ATAAGGGCGA	CACGGAAATG	TTGAATACTC	1800
ATACTCTTCC	TTTTTCAATA	TTATTGAAGC	ATTTATCAGG	GTTATTGTCT	CATGAGCGGA	1860
TACATATTTG	AATGTATTTA	GAAAAATAAA	CAAATAGGGG	TTCCGCGCAC	ATTTCCCCGA	1920
AAAGTGCCAC	CTGACGTCTA	AGAAACCATT	ATTATCATGA	CATTAACCTA	TAAAAATAGG	1980
CGTATCACGA	GGCCCTTTCG	TCTCGCGCGT	TTCGGTGATG	ACGGTGAAAA	CCTCTGACAC	2040
ATGCAGCTCC	CGGAGACGGT	CACAGCTTGT	CTGTAAGCGG	ATGCCGGGAG	CAGACAAGCC	2100
CGTCAGGGCG	CGTCAGCGGG	TGTTGGCGGG	TGTCGGGGCT	GGCTTAACTA	TGCGGCATCA	2160
GAGCAGATTG	TACTGAGAGT	GCACCATATG	CGGTGTGAAA	TACCGCACAG	ATGCGTAAGG	2220
AGAAAATACC	GCATCAGGCG	CCATTCGCCA	TTCAGGCTGC	GCAACTGTTG	GGAAGGGCGA	2280
TCGGTGCGGG	CCTCTTCGCT	ATTACGCCAG	CTGGCGAAAG	GGGGATGTGC	TGCAAGGCGA	2340
TTAAGTTGGG	TAACGCCAGG	GTTTTCCCAG	TCACGACGTT	GTAAAACGAC	GGCCAGTGCC	2400
AAGCTAGCGG	CCGCGGTCCA	ACCACCAATC	TCAAAGCTTG	CCACCATGAT	GGTCCCAGCT	2460
CAGCTCCTCG	GTCTCCTGCT	GCTCTGGTTC	CCAGGTTCCA	GATGCGACAT	CCAGATGACC	2520
CAGTCTCCAT	CTTCCGTGTC	TGCATCTGTA	GGAGACAGAG	TCACCATCAC	TTGTCGGGCG	2580
AGTCAGGATA	TTAGCAGCTG	GTTAGCCTGG	TATCAGCATA	AACCAGGTAA	AGCACCTAAG	2640
CTCCTGATCT	ATGCTGCATC	CAGTTTGCAA	AGTGGTGTCC	CATCAAGGTT	CAGCGGAAGT	2700
GGATCTGGGA	CAGATTTCAC	TCTCACCATC	AGCAGCCTGC	AGCCTGAAGA	TTTTGCAACT	2760

TACTATTGTC AACAGGCTAA TAGTTTCCCG TACACTTTTG GTCAGGGAAC CAAGCTGGAG 2820 ATCAAACGAA CTGTGGCTGC ACCATCTGTC TTCATCTTCC CGCCATCTGA TGAGCAGTTG 2880 AAATCTGGAA CTGCCTCTGT TGTGTGCCTG CTGAATAACT TCTATCCCAG AGAGGCCAAA 2940 GTACAGTGGA AGGTGGATAA CGCCCTCCAA TCGGGTAACT CCCAGGAGAG TGTCACAGAG 3000 CAGGACAGCA AGGACAGCAC CTACAGCCTC AGCAGCACCC TGACGCTGAG CAAAGCAGAC 3060 TACGAGAAAC ACAAAGTCTA CGCCTGCGAA GTCACCCATC AGGGCCTGAG CTCGCCCGTC 3120 ACAAAGAGCT TCAACAGGGG AGAGTGTTAG AGGGAGAAGT GCCCCCACCT GCTCCTCAGT 3180 TCCAGCCTGA CCCCTCCCA TCCTTTGGCC TCTGACCCTT TTTCCACAGG GGACCTACCC 3240 CTATTGCGGT CCTCCAGCTC ATCTTTCACC TCACCCCCCT CCTCCTCCTT GGCTTTAATT 3300 ATGCTAATGT TGGAGGAGAA TGAATAAATA AAGTGAATCT TTGCACCTGT GGTTTCTCTC 3360 TTTCCTCAAT TTAATAATTA TTATCTGTTG TTTACCAACT ACTCAATTTC TCTTATAAGG 3420 GACTAAATAT GTAGTCATCC TAAGGCGCAT AACCATTTAT AAAAATCATC CTTCATTCTA 3480 TTTTACCCTA TCATCCTCTG CAAGACAGTC CTCCCTCAAA CCCACAAGCC TTCTGTCCTC 3540 ACAGTCCCCT GGGCCATGGA TCCTCACATC CCAATCCGCG GCCGCAATTC GTAATCATGG 3600 TCATAGCTGT TTCCTGTGTG AAATTGTTAT CCGCTCACAA TTCCACACAA CATACGAGCC 3660 GGAAGCATAA AGTGTAAAGC CTGGGGTGCC TAATGAGTGA GCTAACTCAC ATTAATTGCG 3720 TTGCGCTCAC TGCCCGCTTT CCAGTCGGGA AACCTGTCGT GCCAGCTGCA TTAATGAATC 3780 3819 GGCCAACGCG CGGGGAGAGG CGGTTTGCGT ATTGGGCGC

(2) INFORMATION FOR SEQ ID NO:244:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:244:

TTCTTCCTCC TCCTGGTGGC AGCTCCTAGA TGGGTCCTGT CTC

43

(2) INFORMATION FOR SEQ ID NO:245:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 43 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:245:	
AGGTGCAGCT ACAGCAGTGG GGCGCAGGAC TGTTGAAGCC TTC	43
(2) INFORMATION FOR SEQ ID NO:246:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:246:	
GGAGACCCTG TCCCTCACCT GCGCTGTCTA TGGTGGTTCC TTC	43
(2) INFORMATION FOR SEQ ID NO:247:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	-
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:247:	
AGTGGTTACT ACTGGAGCTG GATCCGCCAG CCACCAGGTA AGG	43
(2) INFORMATION FOR SEQ ID NO:248:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:248:	
GTCTGGAGTG GATTGGTGAA ATCAATCATA GTGGAAGCAC CAA	43
(2) INFORMATION FOR SEQ ID NO:249:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 43 base pairs	

(B) TYPE: nucleic acid(C) STRANDEDNESS: single

(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:249:	
TTCACCAATC CACTCCAGAC CCTTACCTGG TGGCTGGCGG ATC	43
(2) INFORMATION FOR SEQ ID NO:250:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:250:	
CAGCTCCAGT AGTAACCACT GAAGGAACCA CCATAGACAG CGC	43
(2) INFORMATION FOR SEQ ID NO:251:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	٠
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:251:	
AGGTGAGGGA CAGGGTCTCC GAAGGCTTCA ACAGTCCTGC GCC	43
(2) INFORMATION FOR SEQ_ID NO:252:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 43 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:252:	
CCACTGCTGT AGCTGCACCT GAGACAGGAC CCATCTAGGA GCT	43
(2) INFORMATION FOR SEQ ID NO:253:	

	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
GCC		SEQUENCE DESCRIPTION: SEQ ID NO:253: GA GGAGGAAGAA CCACAGGTGT TTCATGGTGG CAAGCTTG	48
occ.	neeno	CA COACCILIOIN CONCINCIANT TIONIZOTTO GIARCITO	
(2)	INFO	RMATION FOR SEQ ID NO:254:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 23 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:254:	
CATO	GAAAC	AC CTGTGGTTCT TCC	23
(2)	INFO	RMATION FOR SEQ ID NO:255:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	-
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:255:	
TCT	rgaga	GA CGGGTTGTAG TTGGTGCTTC CACTATGATT GAT	43
(2)	INFO	RMATION FOR SEQ ID NO:256:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:256:	

CTACAACCCG TCTCTCAAGA GTCGAGTCAC CATATCAGTA GAC

(2) INFORMATION FOR SEQ ID NO:257:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:257:	
ACGTCCAAGA ACCAGTTCTC TCTGAAACTG AGCTCTGTGA CCG	43
(2) INFORMATION FOR SEQ ID NO:258:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:258:	
CTGCGGACAC GGCTGTGTAT TACTGTGCGA GAGTAATTAA TTG	43
(2) INFORMATION FOR SEQ ID NO:259:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 43 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:259:	
GTTCGACCCT TGGGGCCAGG GAACCCTGGT CACCGTCTCC TCA	43
(2) INFORMATION FOR SEQ ID NO:260:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 38 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:260:	
GCCTCAACCA AGGGCCCATC GGTCTTCCCC CTGGCACC	38
(2) INFORMATION FOR SEQ ID NO:261:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 44 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:261:	
CGATGGGCCC TTGGTTGAGG CTGAGGAGAC GGTGACCAGG GTTC	44
(2) INFORMATION FOR SEQ ID NO:262:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:262:	
CCTGGCCCCA AGGGTCGAAC CAATTAATTA CTCTCGCACA GTA	43
(2) INFORMATION FOR SEQ ID NO:263:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:263:	
ATACACAGCC GTGTCCGCAG CGGTCACAGA GCTCAGTTTC AGA	43
(2) INFORMATION FOR SEQ ID NO:264:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 43 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(11)	MODECOLE TIPE: DNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:264:	
GAGAACTGG	TCTTGGACGT GTCTACTGAT ATGGTGACTC GAC	43
(2) INFOR	RMATION FOR SEQ ID NO:265:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 20 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:265:	
GAAGCACCA	AA CTACAACCCG	20
(2) INFOR	RMATION FOR SEQ ID NO:266:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:266:	
GAGTTCCAC	CG ACACCGTCAC C	21
(2) INFOR	RMATION FOR SEQ ID NO:267:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii)	MOLECULE TYPE: DNA	
(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:267:	
GACCTCAAG	GC TTGCCACCAT GAAACACCTG TGG	33
(2) INFOR	RMATION FOR SEQ ID NO:268:	
(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 4926 base pairs (B) TYPE: nucleic acid	

(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:268:

60	CCTCCTGGTG	GGTTCTTCCT	AAACACCTGT	TGCCACCATG	AGCTGAAGCT	GAACTCGAGC
120	AGGACTGTTG	AGTGGGGCGC	CAGCTACAGC	GTCTCAGGTG	GATGGGTCCT	GCAGCTCCTA
180	CAGTGGTTAC	GTGGTTCCTT	GCTGTCTATG	CCTCACCTGC	AGACCCTGTC	AAGCCTTCGG
240	TGAAATCAAT	AGTGGATTGG	AAGGGTCTGG	GCCACCAGGT	GGATCCGCCA	TACTGGAGCT
300	ATCAGTAGAC	GAGTCACCAT	CTCAAGAGTC	CAACCCGTCT	GCACCAACTA	CATAGTGGAA
360	CACGGCTGTG	CCGCTGCGGA	AGCTCTGTGA	TCTGAAACTG	ACCAGTTCTC	ACGTCCAAGA
420	CCTGGTCACC	GCCAGGGAAC	GACCCTTGGG	TAATTGGTTC	CGAGAGTAAT	TATTACTGTG
480	CTCCAAGAGC	TGGCACCCTC	GTCTTCCCCC	GGGCCCATCG	CCTCAACCAA	GTCTCCTCAG
540	CGAACCGGTG	ACTACTTCCC	CTGGTCAAGG	CCTGGGCTGC	GCACAGCGGC	ACCTCTGGGG
600	GGCTGTCCTA	ACACCTTCCC	AGCGGCGTGC	CGCCCTGACC	GGAACTCAGG	ACGGTGTCGT
660	CAGCTTGGGC	TGCCCTCCAG	GTGGTGACCG	CCTCAGCAGC	GACTCTACTC	CAGTCCTCAG
720	GGACAAGAAA	ACACCAAGGT	AAGCCCAGCA	CGTGAATCAC	ACATCTGCAA	ACCCAGACCT
780	TCAGCGCTCC	GAAGCCAGGC	GTGTCTGCTG	GGGAGGGAGG	GGCCAGCACA	GTTGGTGAGA
840	GCCCCGTCTG	AGCAAGGCAG	AGTCCAGGGC	ATGCAGCCCC	CATCCCGGCT	TGCCTGGACG
900	TCTTCTGGCT	AGGGAGAGGG	ACTCATGCTC	TGCCCGCCCC	CGGAGGCCTC	CCTCTTCACC
960	CTGCACACAA	AACCCAGGCC	AGGTGCCCCT	GGCACAGGCT	GCTCTGGGCA	TTTTCCCCAG
1020	CTGCCCCTGA	CGGGAGGACC	GAGCCATATC	GACCTGCCAA	GCTGGGCTCA	AGGGGCAGGT
1080	TTCTCTCCTC	CTCGGACACC	ACTCCCTCAG	CAAACTCTCC	CCCCAAAGGC	CCTAAGCCCA
1140	ACAAAACTCA	AAATCTTGTG	TGCAGAGCCC	ATCTTCTCTC	GTAACTCCCA	CCAGATTCCA
1200	CAAGGCGGGA	CCCTCCAGCT	CCAGGCCTCG	GTAAGCCAGC	CCGTGCCCAG	CACATGCCCA
1260	GACACGTCCA	GCCGGGTGCT	ACAGGCCCCA	GCATCCAGGG	AGAGTAGCCT	CAGGTGCCCT
1320	CTCTTCCCCC	GTCAGTCTTC	TGGGGGGACC	CCTGAACTCC	TTCCTCAGCA	CCTCCATCTC
1380	GTGGTGGTGG	GGTCACATGC	GGACCCCTGA	ATGATCTCCC	GGACACCCTC	CAAAACCCAA
1440	GTGGAGGTGC	CGTGGACGGC	TCAACTGGTA	GAGGTCAAGT	CGAAGACCCT	ACGTGAGCCA
1500	GTGGTCAGCG	CACGTACCGT	AGTACAACAG	CGGGAGGAGC	GACAAAGCCG	ATAATGCCAA
1560	AAGGTCTCCA	GTACAAGTGC	ATGGCAAGGA	GACTGGCTGA	CCTGCACCAG	TCCTCACCGT
1620	GGGACCCGTG	AGCCAAAGGT	CCATCTCCAA	ATCGAGAAAA	CCCAGCCCCC	ACAAAGCCCT

GGGTGCGAGG	GCCACATGGA	CAGAGGCCGG	CTCGGCCCAC	CCTCTGCCCT	GAGAGTGACC	1680
GCTGTACCAA	CCTCTGTCCC	TACAGGGCAG	CCCCGAGAAC	CACAGGTGTA	CACCCTGCCC	1740
CCATCCCGGG	ATGAGCTGAC	CAAGAACCAG	GTCAGCCTGA	CCTGCCTGGT	CAAAGGCTTC	1800
TATCCCAGCG	ACATCGCCGT	GGAGTGGGAG	AGCAATGGGC	AGCCGGAGAA	CAACTACAAG	1860
ACCACGCCTC	CCGTGCTGGA	CTCCGACGGC	TCCTTCTTCC	TCTACAGCAA	GCTCACCGTG	1920
GACAAGAGCA	GGTGGCAGCA	GGGGAACGTC	TTCTCATGCT	CCGTGATGCA	TGAGGCTCTG	1980
CACAACCACT	ACACGCAGAA	GAGCCTCTCC	CTGTCTCCGG	GTAAATGAGT	GCGACGGCCG	2040
GCAAGCCCCC	GCTCCCCGGG	CTCTCGCGGT	CGCACGAGGA	TGCTTGGCAC	GTACCCCCTG	2100
TACATACTTC	CCGGGCGCCC	AGCATGGAAA	TAAAGCACCC	AGCGCTGCCC	TGGGCCCCTG	2160
CGAGACTGTG	ATGGTTCTTT	CCACGGGTCA	GGCCGAGTCT	GAGGCCTGAG	TGGCATGAGG	2220
GAGGCAGAGC	GGGTCCCACT	GTCCCCACAC	TGGCCCAGGC	TGTGCAGGTG	TGCCTGGGCC	2280
CCCTAGGGTG	GGGCTCAGCC	AGGGGCTGCC	CTCGGCAGGG	TGGGGGATTT	GCCAGCGTGG	2340
CCCTCCCTCC	AGCAGCACCT	GCCCTGGGCT	GGGCCACGGG	AAGCCCTAGG	AGCCCCTGGG	2400
GACAGACACA	CAGCCCCTGC	CTCTGTAGGA	GACTGTCCTG	TTCTGTGAGC	GCCCCTGTCC	2460
TCCCGACCTC	CATGCCCACT	CGGGGGCATG	CCTGCAGGTC	GACTCTAGAG	GATCCCCGGG	2520
TACCGAGCTC	GAATTCATCG	ATGATATCAG	ATCTGCCGGT	CTCCCTATAG	TGAGTCGTAT	2580
TAATTTCGAT	AAGCCAGGTT	AACCTGCATT	AATGAATCGG	CCAACGCGCG	GGGAGAGGCG	2640
GTTTGCGTAT	TGGGCGCTCT	TCCGCTTCCT	CGCTCACTGA	CTCGCTGCGC	TCGGTCGTTC	2700
GGCTGCGGCG	AGCGGTATCA	GCTCACTCAA	AGGCGGTAAT	ACGGTTATCC	ACAGAATCAG	2760
GGGATAACGC	AGGAAAGAAC	ATGTGAGCAA	AAGGCCAGCA	AAAGGCCAGG	AACCGTAAAA	2820
AGGCCGCGTT	GCTGGCGTTT	TTCCATAGGC	TCCGCCCCCC	TGACGAGCAT	CACAAAAATC	2880
GACGCTCAAG	TCAGAGGTGG	CGAAACCCGA	CAGGACTATA	AAGATACCAG	GCGTTTCCCC	2940
CTGGAÄGCTC	CCTCGTGCGC	TCTCCTGTTC	CGACCCTGCC	GCTTACCGGA	TACCTGTCCG	3000
CCTTTCTCCC	TTCGGGAAGC	GTGGCGCTTT	CTCAATGCTC	ACGCTGTAGG	TATCTCAGTT	3060
CGGTGTAGGT	CGTTCGCTCC	AAGCTGGGCT	GTGTGCACGA	ACCCCCCGTT	CAGCCCGACC	3120
GCTGCGCCTT	ATCCGGTAAC	TATCGTCTTG	AGTCCAACCC	GGTAAGACAC	GACTTATCGC	3180
CACTGGCAGC	AGCCACTGGT	AACAGGATTA	GCAGAGCGAG	GTATGTAGGC	GGTGCTACAG	3240
AGTTCTTGAA	GTGGTGGCCT	AACTACGGCT	ACACTAGAAG	GACAGTATTT	GGTATCTGCG	3300
CTCTGCTGAA	GCCAGTTACC	TTCGGAAAAA	GAGTTGGTAG	CTCTTGATCC	GGCAAACAAA	3360
CCACCGCTGG	TAGCGGTGGT	TTTTTTGTTT	GCAAGCAGCA	GATTACGCGC	AGAAAAAAAG	3420

GATCTCAAGA AGATCCTTTG ATCTTTTCTA CGGGGTCTGA CGCTCAGTGG AACGAAAACT 3480 CACGTTAAGG GATTTTGGTC ATGAGATTAT CAAAAAGGAT CTTCACCTAG ATCCTTTTAA 3540 ATTAAAAATG AAGTTTTAAA TCAATCTAAA GTATATATGA GTAAACTTGG TCTGACAGTT 3600 ACCAATGCTT AATCAGTGAG GCACCTATCT CAGCGATCTG TCTATTTCGT TCATCCATAG 3660 TTGCCTGACT CCCCGTCGTG TAGATAACTA CGATACGGGA GGGCTTACCA TCTGGCCCCA 3720 GTGCTGCAAT GATACCGCGA GACCCACGCT CACCGGCTCC AGATTTATCA GCAATAAACC 3780 AGCCAGCCGG AAGGGCCGAG CGCAGAAGTG GTCCTGCAAC TTTATCCGCC TCCATCCAGT 3840 CTATTAATTG TTGCCGGGAA GCTAGAGTAA GTAGTTCGCC AGTTAATAGT TTGCGCAACG 3900 TTGTTGCCAT TGCTACAGGC ATCGTGGTGT CACGCTCGTC GTTTGGTATG GCTTCATTCA 3960 GCTCCGGTTC CCAACGATCA AGGCGAGTTA CATGATCCCC CATGTTGTGC AAAAAAGCGG 4020 TTAGCTCCTT CGGTCCTCCG ATCGTTGTCA GAAGTAAGTT GGCCGCAGTG TTATCACTCA 4080 TGGTTATGGC AGCACTGCAT AATTCTCTTA CTGTCATGCC ATCCGTAAGA TGCTTTTCTG 4140 TGACTGGTGA GTACTCAACC AAGTCATTCT GAGAATAGTG TATGCGGCGA CCGAGTTGCT 4200 CTTGCCCGGC GTCAATACGG GATAATACCG CGCCACATAG CAGAACTTTA AAAGTGCTCA 4260 TCATTGGAAA ACGTTCTTCG GGGCGAAAAC TCTCAAGGAT CTTACCGCTG TTGAGATCCA 4320 GTTCGATGTA ACCCACTCGT GCACCCAACT GATCTTCAGC ATCTTTACT TTCACCAGCG 4380 TTTCTGGGTG AGCAAAAACA GGAAGGCAAA ATGCCGCAAA AAAGGGAATA AGGGCGACAC 4440 GGAAATGTTG AATACTCATA CTCTTCCTTT TTCAATATTA TTGAAGCATT TATCAGGGTT 4500 ATTGTCTCAT GAGCGGATAC ATATTGAAT GTATTTAGAA AAATAAACAA ATAGGGGTTC 4560 CGCGCACATT TCCCCGAAAA GTGCCACCTG ACGTCTAAGA AACCATTATT ATCATGACAT 4620 TAACCTATAA AAATAGGCGT ATCACGAGGC CCTTTCGTCT CGCGCGTTTC GGTGATGACG 4680 GTGAAAACCT CTGACACATG CAGCTCCCGG AGACGGTCAC AGCTTGTCTG TAAGCGGATG 4740 CCGGGAGCAG ACAAGCCCGT CAGGGCGCGT CAGCGGGTGT TGGCGGGTGT CGGGGCTGGC 4800 4860 TTAACTATGC GGCATCAGAG CAGATTGTAC TGAGAGTGCA CCATATGGAC ATATTGTCGT TAGAACGCGG CTACAATTAA TACATAACCT TATGTATCAT ACACATACGA TTTAGGTGAC 4920 4926 ACTATA

(2) INFORMATION FOR SEQ ID NO:269:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 15 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

	(II) MODECOLE TIPE: DNA (GENOMIC)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:269:	
AGC	TTTACCA GCTAC	15
(2)	INFORMATION FOR SEQ ID NO:270:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:270:	
TACT	TGGTACT TCGATCTC	18
(2)	INFORMATION FOR SEQ ID NO:271:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:271:	
CAGO	GGGGGGG ATAGGTACTT CGATCTC	27
(2)	INFORMATION FOR SEQ ID NO:272:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:272:	
GCTT	TTTGATA TC	12
(2)	INFORMATION FOR SEQ ID NO:273:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 30 base pairs(B) TYPE: nucleic acid	

	(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:273:	
CAT	TGGCTAA ATGGGGATGC TTTTGATATC	30
(2)	INFORMATION FOR SEQ ID NO:274:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:274:	
CGGC	GATTACG ATATTTTGAC TGGTTATTAT GCGGCTTTTG ATATC	45
(2)	INFORMATION FOR SEQ ID NO:275:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 12 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:275:	
TACT	TTTGACT AC	12
(2)	INFORMATION FOR SEQ ID NO:276:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:276:	
AGTT	TTTTCCG ACTAC	15

(2) INFORMATION FOR SEQ ID NO:277:

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 50 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:277:	
GGGTATTATT ATGATTCGGG GACTTATTAT AAGTCTACCC CTTTGACTAT	50
(2) INFORMATION FOR SEQ ID NO:278:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:278:	
CTAACTGGCC TCTTTAACTA C	21
(a) INFORMATION FOR SEC. ID NO. 270	
(2) INFORMATION FOR SEQ ID NO:279:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:279:	
CATCTTTACT TTGACTAC	18
(2) INFORMATION FOR SEQ ID NO:280:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:280:	
AGCTTTACCA GCCAA	15

(2)	INFORMATION FOR SEQ ID NO:281:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:281:	
CAA	GGGTTTG ACTAC	15
(2)	INFORMATION FOR SEQ ID NO:282:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:282:	
AGT'	TTTAGCA GCTAC	15
(2)	INFORMATION FOR SEQ ID NO:283:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:283:	
AGC	TTTACCA ACTAC	15
(2)	INFORMATION FOR SEQ ID NO:284:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECILE TYPE: DNA (genomic)	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:284:	
CAAACTTTTG ACTAC	15
(2) INFORMATION FOR SEQ ID NO:285:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 36 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:285:	
CATGGTATAG CAGCAGCTGG TACGTGGTTC GACCCC	36
(2) INFORMATION FOR SEQ ID NO:286:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:286:	
AGCTTTTCCA GTTAC	15
(2) INFORMATION FOR SEQ ID NO:287:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 18 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:287:	
CAGGGCTACT TTGACTAC	18
(2) INFORMATION FOR SEQ ID NO:288:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

	(II) MODECULE TIPE: DNA (GENOMIC)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:288:	
GCC	GGGTATA CCAGCAGCTG GTTCTTTGAC TTC	33
(2)	INFORMATION FOR SEQ ID NO:289:	
	(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:289:	
AGCT	TTTCCCA TCTAC	15
(2)	INFORMATION FOR SEQ ID NO:290:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 33 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:290:	
GTGC	GTTCGGG GATTTATTAT TTACTTTGAC TAC	33
(2)	INFORMATION FOR SEQ ID NO:291:	
,	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:291:	
AGCT	TTAACCA GTTAT	15
(2)	INFORMATION FOR SEQ ID NO:292:	
	(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 20 base pairs(B) TYPE: nucleic acid	

	(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:292:	
CAAA	AGGGGTA CTTTGACTAC	20
	·	
(2)	INFORMATION FOR SEQ ID NO:293:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:293:	
GGAT	rcgtggt actttgacta c •	21
(2)	INFORMATION FOR SEQ ID NO:294:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:294:	
AACT	TGGTTCG ACCCC	15
(2)	INFORMATION FOR SEQ ID NO:295:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:295:	
AACT	TTTACCA CCTAC	15
(2)	INFORMATION FOR SEQ ID NO:296:	

	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:296:	
CTCC	CCAAT	rg acagttggtt cgacccc	27
(2)	INFO	RMATION FOR SEQ ID NO:297:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:297:	
CGGG	GGTAC	CT ATGGTTCGGG GAGTTATTAT AACTGGTTCG ACCCC	45
(2)	INFO	RMATION FOR SEQ ID NO:298:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:298:	
TACT	CACTAC	CT ACTACGGTAT GGACGTC	27
(2)	INFOR	RMATION FOR SEQ ID NO:299:	
	(i)	SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
	(ii)	MOLECULE TYPE: DNA (genomic)	
	(xi)	SEQUENCE DESCRIPTION: SEQ ID NO:299:	
3300	ייים אייייייייייייייייייייייייייייייייי		15

(2)	INFORMATION FOR SEQ ID NO:300:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 45 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:300:	
CAT	GAGCAGC TGGTACAGGG TTACTACTAC TACGGTATGG ACGTC	45
(2)	INFORMATION FOR SEQ ID NO:301:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:301:	
ACC'	TTTACCA GTTAC	15
(2)	INFORMATION FOR SEQ ID NO:302:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 42 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	
	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:302:	
GAT	ATGGGGG GGGCCTCCTA CTTCTACTTC GGTATGGACG TC	42
(2)	INFORMATION FOR SEQ ID NO:303:	
	 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 15 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
	(ii) MOLECULE TYPE: DNA (genomic)	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:303:	
AGCTTTGCCA ACTAC	15
(2) INFORMATION FOR SEQ ID NO:304:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 27 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:304:	
CACCACGACT ACTACGGTAT GGACGTC	27
(2) INFORMATION FOR SEQ ID NO:305:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 21 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:305:	
CGCTACTACG GTATGGACGT C	21
(2) INFORMATION FOR SEQ ID NO:306:	-
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 812 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
<pre>(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: join(199247, 419714)</pre>	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:306:	·
TTTTCTGGCC TGACAACCAG GGTGGCGCAG GATGCTCAGT GCAGAGAGGA AGAAGCAGGT	60
GGTCTCTGCA GCTGGAAGCT CAGCTCCCAC CCAGCTGCTT TGCATGTCCC TCCCAGCTGC	120
CCTACCTTCC AGAGCCCATA TCAATGCCTG TGTCAGAGCC CTGGGGAGGA ACTGCTCAGT	180

TAGO	GACC	CAG A	AGGG?	AACC		GAA Glu							_			231
			CTC Leu 15		G G	rgag(GGG?	A ACC	CATG	AGGT	GGT:	rttg(CAC			277
ATT	ATTAGTGAAA ACTCTTGCCA CCTCTGCTCA GCAAGAAATA TAATTAAAAT TCAAAGTATA											337				
TCA	ACAA:	TTT 1	rggc:	CTA	CT C	AAAGA	ACAG	r TG0	3TTTC	BATC	TTG	ATTA	CAT (GÅGT(GCATTT	397
CTG	TTTT	ATT '	rcca <i>i</i>	ATTT	CA G	AT Asp								ACA Thr 25		447
						TTG Leu										495
						GTT Val										543
						AGG Arg 65										591
						AGG Arg										639
						AGC Ser										687
						AAC Asn			CCC	ACAG'	rga :	rtcc2	ACAT	GA		734
AAC	AAAA	ACC (CCAA	CAAG	AC C	ATCA	GTGT:	r TAC	CTAGA	ATTA	TTA	racc:	AGC	rgct'	rccttt	794
ACAG	GACAC	GCT A	AGTG	GGT												812
(2)	TNFC	ימאסר	rton	FOR	SEO	י מד	JO • 3 (77.								

(2) INFORMATION FOR SEQ ID NO:307:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 115 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:307:

Met Glu Ala Pro Ala Gln Leu Leu Phe Leu Leu Leu Trp Leu Pro 5 10 15 1

Asp	Thr	Thr	Gly 20	Glu	Ile	Val	Leu	Thr 25	Gln	Ser	Pro	Ala	Thr 30	Leu	Ser	
Leu	Ser	Pro 35	Gly	Glu	Arg	Ala	Thr 40	Leu	Ser	Cys	Arg	Ala 45	Ser	Gln	Ser	
Val	Ser 50	Ser	Tyr	Leu	Ala	Trp 55	Tyr	Gln	Gln	Lys	Pro 60	Gly	Gln	Ala	Pro	
Arg 65	Leu	Leu	Ile	Tyr	Asp 70	Ala	Ser	Asn	Arg	Ala 75	Thr	Gly	Ile	Pro	Ala 80	
Arg	Phe	Ser	Gly	Ser 85	Gly	Ser	Gly	Thr	Asp 90	Phe	Thr	Leu	Thr	Ile 95	Ser	
Ser	Leu	Glu	Pro 100	Glu	Asp	Phe	Ala	Val 105	Tyr	Tyr	Cys	Gln	Gln 110	Arg	Ser	
Asn	Trp	Pro 115														
(2)	(2) INFORMATION FOR SEQ ID NO:308:															
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 900 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)																
(ix) FEATURE: (A) NAME/KEY: CDS (B) LOCATION: join(180228, 398693)																
	(xi)	SEC	QUENC	CE DI	ESCRI	PTIC	ON: S	SEQ I	ID NO	308	3:					
AGG	GCGG	CGC F	AGATO	CTC	AG TO	GCAGA	AGAGA	A AGA	AAACA	AGGT	GGT	CTCTC	GCA C	CTGC	BAAGCT	60
CAG	CTCC	CAC C	CCA	GCTG	T T	GCAT	rgtco	CTC	CCCAC	CTG	CCCT	TACCI	TTC (CAGAC	GCCCAT	120
ATC	AATGO	CCT C	GGT	CAGA	C TO	CTGGC	GAGO	AA E	CTGCT	CAG	TTAC	GAC	CCA C	BACGO	BAACC	179
		GCC Ala				-									ACA G Thr	228
GTG	AGGGG	AA T	TATG	AGGT	T CI	TTGC	CACAT	CAC	STGAZ	AAAC	TCCT	GCCI	ACC I	CTGC	CTCAGC	288
AAG	AATI	ATA F	ATTA	AAAT:	C A	AAATA	AGATO	CAAC	CAATT	TTG	GCT	TACI	CA A	AGAC	CAGTGG	348
GTT:	rgat 1	TTT (SATTA	ACATO	GA GI	GCA1	rrrci	r GTT	TTAT	TTC	CAAT	TTC		AT AC		402
		GAA Glu														450

														GTT Val		498
														AGG Arg 65		546
														AGG Arg		594
														AGC Ser		642
														AAC Asn		690
CAT His 115														743		
TAC	raga 7	TA T	TAT	ACCAC	C TO	CTTC	CCTT	r AC	AGACA	AGCT	AGTO	GGG7	rgg (CCACI	CAGTG	803
TTAC	GCATO	CTC A	AGCTO	CTAT	T GO	GCCAT	TTTT	GAC	TTC	AAGT	TGT	CAAGT	rcc A	CAAAA	TTACTT	863
ATG:	TTAGT	rcc #	ATTGO	CATC	AT AC	CCATI	TCAC	G TGT	rggc1	ŗ						900
(2)	TNE	ראשכר	rton.	FOD	SEO	א מד	J∩ • 3 (١٩٠								

(2) INFORMATION FOR SEQ ID NO:309:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 115 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:309:

Met Glu Ala Pro Ala Gln Leu Leu Phe Leu Leu Leu Trp Leu Thr 1

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Ala Thr Leu Ser

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Gly 40 35

Val Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro 55

Arg Leu Leu Ile Tyr Asp Ala Ser Asn Arg Ala Thr Gly Ile Pro Ala 70 65

Arg Phe Ser Gly Ser Gly Pro Gly Thr Asp Phe Thr Leu Thr Ile Ser 90 85

Ser Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Arg Ser 105

Asn Trp His 115

- (2) INFORMATION FOR SEQ ID NO:310:
 - (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 900 base pairs

 - (B) TYPE: nucleic acid (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
 - (ii) MOLECULE TYPE: DNA (genomic)
 - (ix) FEATURE:

65

- (A) NAME/KEY: CDS
 - (B) LOCATION: join(116..164, 352..650)

(') GROVENGE PEGGETERION GEO ID NO 210	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:310:	
CCGCCCCAGC TGCTTTGCAT GTCCCTCCCA GCCGCCCTGC AGTCCAGAGC CCATATCAAT	60
GCCTGGGTCA GAGCTCTGGA GAAGAGCTGC TCAGTTAGGA ACCCCAGAGG GAACC ATG Met 1	118
GAA ACC CCA GCG CAG CTT CTC TTC CTC CTG CTA CTC TGG CTC CCA G Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Trp Leu Pro 5 10 15	164
GTGAGGGGAA CATGGGATGG TTTTGCATGT CAGTGAAAAC CCTCTCAAGT CCTGTTACCT	224
GGCAACTCTG CTCAGTCAAT ACAATAATTA AAGCTCAATA TAAAGCAATA ATTCTGGCTC	284
TTCTGGGAAG ACAATGGGTT TGATTTAGAT TACATGGGTG ACTTTTCTGT TTTATTTCCA	344
ATCTCAG AT ACC ACC GGA GAA ATT GTG TTG ACG CAG TCT CCA GGC ACC Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr 20 25 30	392
CTG TCT TTG TCT CCA GGG GAA AGA GCC ACC CTC TCC TGC AGG GCC AGT Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser 35 40 45	440
CAG AGT GTT AGC AGC AGC TAC TTA GCC TGG TAC CAG CAG AAA CCT GGC Gln Ser Val Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly 50 55 60	488
CAG GCT CCC AGG CTC CTC ATC TAT GGT GCA TCC AGC AGG GCC ACT GGC Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly	536

Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu 80 85 90

70

ATC CCA GAC AGG TTC AGT GGC AGT GGG TCT GGG ACA GAC TTC ACT CTC

	_													TGT Cys			632
			AGC Ser			CCC	ACAGI	rga 1	TCAC	CTTC	BA AA	ACAAZ	AAC(С			680
TCTG	CAAG	BAC (CTTCA	ATTGI	T T	CTAC	ATTA	A TAC	CCAGO	CTGC	TTCC	CTTTA	ACA (GATAC	CTG	CT	740
GCAA	TGAC	CAA (CTCA	ATTTA	G CA	ATCT	CTCTC	TGC	CTTGC	GCA	TTTT	rggg	AT (CTTA	AAA	AG	800
TAAT	CCCI	TG A	ATATA	\TTTI	T GA	CTCT	GATI	CCI	GCA7	TTT	TCCI	CAGA	ACC 2	AAGAI	GGA	.CA	860
GCCA	.GGTT	TA A	AGCAC	CAGTT	T CA	CAG	TAATO	GCC	CACTO	GAT							900

(2) INFORMATION FOR SEQ ID NO:311:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 116 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: protein
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:311:

Met Glu Thr Pro Ala Gln Leu Leu Phe Leu Leu Leu Leu Trp Leu Pro

Asp Thr Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr Leu Ser 20 25 30

Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser Gln Ser 35 40 45

Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly Gln Ala 50 55 60

Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly Ile Pro 65 70 75 80

Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile 85 90 95

Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln Gln Tyr 100 105 110

Gly Ser Ser Pro 115

(2) INFORMATION FOR SEQ ID NO:312:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 847 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

(A) NAME/KEY: CDS

(B) LOCATION: join(226..280, 406..701)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:312:

AAACACATTC TCTGCAGACA AATTTGAGCT ACCTTGATCT TACCTGGACA GGTGGGGACA	60										
CTGAGCTGGT GCTGAGTTAC TCAGATGCGC CAGCTCTGCA GCTGTGCCCA GCCTGCCCCA	120										
TCCCCTGCTC ATTTGCATGT TCCCAGAGCA CAACCTCCTG CCCTGAAGCC TTATTAATAG	180										
GCTGGTCAGA CTTTGTGCAG GAATCAGACC CAGTCAGGAC ACAGC ATG GAC ATG Met Asp Met 1	234										
AGG GTC CTC GCT CAG CTC CTG GGG CTC CTG CTG CTC TGT TTC CCA G Arg Val Leu Ala Gln Leu Leu Gly Leu Leu Leu Cys Phe Pro 5 10 15											
GTAAGGATGG AGAACACTAG CAGTTTACTC AGCCCAGGGT GCTCAGTACT GCTTTACTAT	340										
TCAGGGAAAT TCTCTTACAA CATGATTAAT TGTGTGGACA TTTGTTTTTA TGTTTCCAAT	400										
CTCAG GT GCC AGA TGT GAC ATC CAG ATG ACC CAG TCT CCA TCC TCA Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser 20 25 30	446										
CTG TCT GCA TCT GTA GGA GAC AGA GTC ACC ATC ACT TGT CGG GCG AGT Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser 35 40 45	494										
CAG GGT ATT AGC AGC TGG TTA GCC TGG TAT CAG CAG AAA CCA GAG AAA Gln Gly Ile Ser Ser Trp Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys 50 55 60	542										
GCC CCT AAG TCC CTG ATC TAT GCT GCA TCC AGT TTG CAA AGT GGG GTC Ala Pro Lys Ser Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val 65 70 75 80	590										
CCA TCA AGG TTC AGC GGC AGT GGA TCT GGG ACA GAT TTC ACT CTC ACC Pro Ser Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr 85 90 95	638										
ATC AGC AGC CTG CAG CCT GAA GAT TTT GCA ACT TAT TAC TGC CAA CAG Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln 100 105 110	686										
TAT AAT AGT TAC CCA CCCACAGTGT TACACACCCA AACATAAACC CCCAGGGAAG Tyr Asn Ser Tyr Pro 115	741										
CAGATGTGTG AGGCTGGGCT GCCCCAGCTG CTTCTCCTGA TGCCTCCATC AGCTGAGAGT	801										
GTTCCTCAGA TGCAGCCACA CTCTGATGGT GTTGGTAGAT GGGGAC	847										

(2) INFORMATION FOR SEQ ID NO:313:												
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 117 amino acids(B) TYPE: amino acid(D) TOPOLOGY: linear												
(ii) MOLECULE TYPE: protein												
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:313:												
Met Asp Met Arg Val Leu Ala Gln Leu Leu Gly Leu Leu Leu Cys 1 5 10 15												
Phe Pro Gly Ala Arg Cys Asp Ile Gln Met Thr Gln Ser Pro Ser Ser 20 25 30												
Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser 35 40 45												
Gln Gly Ile Ser Ser Trp Leu Ala Trp Tyr Gln Gln Lys Pro Glu Lys 50 55 60												
Ala Pro Lys Ser Leu Ile Tyr Ala Ala Ser Ser Leu Gln Ser Gly Val 65 70 80												
Pro Ser Arg Phe Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr 85 90 95												
Ile Ser Ser Leu Gln Pro Glu Asp Phe Ala Thr Tyr Tyr Cys Gln Gln 100 105 110												
Tyr Asn Ser Tyr Pro 115												
(2) INFORMATION FOR SEQ ID NO:314:												
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 134 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear												
(ii) MOLECULE TYPE: cDNA												
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:314:												
GCCTCGGACA CCGCCATGTA TTACTGTGTG AGACATTTAT GGTTCGGGGA GTTACGCGGT	6(
	.2(
TCTGTCTATC CACT	.34											

(2) INFORMATION FOR SEQ ID NO:315:

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 125 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:315:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGACACTGGG CATTGGATGC TCTTGATGTC 6	0
TGGGGCCAAG GGACAATGCT CACCGTCTCT TCAGCCAAAA CGACACCCCC ATCTGTCTAT 12	0
CCACT 12	5
(2) INFORMATION FOR SEQ ID NO:316:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:316:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGAACTGGGG ATGATGCTTT TGATATCTGG 6	0
GGCCAAGGGA CAATGGTCAC CGTCTCTTCA GCCAAAACAA CACCCCCATC AGTCTATCCA 12	0
CT 12	2
(2) INFORMATION FOR SEQ ID NO:317:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 122 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:317:	
GACTCGGACA CCGCCATGTA TTACTGTGCG AGACAGGGGA GAGATGCTTT AGATATCTGG 6	0
GGCCAAGGGA CAATGGTCAC CGTCTCTTCA GCCAAAACAA CACCCCCATC AGTCTATCCA 12	0
CT 12	2

(2) INFORMATION FOR SEQ ID NO:318:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 137 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:318:	
GCCTCGGACA CCGCCATGTA TTATTGTGTG AGACATAGGG ACTATATTTC GGGGAGTTAT	60
TTTCCTGACT ACTGGGGCCA GGGAACCCTG GTCACCGTCT CCTCAGCCAA AACAACACCC	120
CCATCAGTCT ATCCACT	137
(2) INFORMATION FOR SEQ ID NO:319:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 116 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:319:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGACATGGGT CTATGGATAT CTGGGGCCAA	60
GGGACAATGG TCACCGTCTC TTCAGCTACA ACAACAGCCC CATCTGTCTA TCCCTT	116
(2) INFORMATION FOR SEQ ID NO:320:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 128 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:320:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGAGAGAGCG GTCACTGGGG ATCGTTTGAC	60
TATTGGGGCC AGGGAACCCT GGTCACCGTC TCCTCAGCTA CAACAACAGC CCCATCTGTC	120
TATCCCTT	128
(2) INFORMATION FOR SEQ ID NO:321:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 125 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single	

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:321:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGAAGGGACC CCCCTGATGC TTTTGATATC	60
TGGGGCCAAG GGACAATGGT CACCGTCTCT TCAGCTACAA CAACAGCCCC ATCTGTCTAT	120
CCCTT	125
•	
(2) INFORMATION FOR SEQ ID NO:322:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 131 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:322:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGACGGGGGC CTTACTACTA CTACGGTATG	60
GACGTCTGGG GCCAAGGGAC CACGGTCACC GTCTCCTCAG CTACAACAAC AGCCCCATCT	120
GTCTATCCCT T	131
(2) INFORMATION FOR SEQ ID NO:323:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 1674 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:323:	
CGAGAGGGC GGGGGAAGA CTACTATCCC AGGCAGGTTT TAGGTTCCAG AGTCTGCGAG	60
AAATCCCACC ATCTACCCAC TGACACTCCC ACCAGTCCTG TGCAGTGATC CCGTGATAAT	120
CGGCTGCCTG ATTCACGATT ACTTCCCTTT CGGCACGATG AATGTGACCT GGGGAAAGAG	180
TGGGAAGGAT ATAACCACCG TGAACTTTCC ACCTGCCCTC GCCTCTGGGG GACGGTACAC	240
CATGAGCAGC CAGTTAACCC TGCCAGCTGT CGAGTGCCCA GAAGGAGAGT CCGTGAAATG	300
TTCCGTGCAA CATGACTCTA ACCCCGTCCA AGAATTGGAT GTGAATTGCT CTGGTAAAGA	360
ACGTTAGGGG GTCAGCTAGG GGTGGGATAA GTCCTACCTT ATCTAGATCC ATATATCCCT	420

CTGATGCACA	CCCTCACAGG	AATCCCTCAG	AAACCTCCAC	TATGGGGATT	GGGGGAAGGA	480
AGCGTAAACA	GGTCTAGAAG	GAGCTGGAGG	CCTCAGAACA	TCCAGAAACG	GGGACAGCAA	540
AGGAGACAAG	GAGAATATAC	TGATTTGCTA	GGACATCTTC	TGTTACAGGT	CCTACTCCTC	600
CTCCTCCTAT	TACTATTCCT	TCCTGCCAGC	CCAGCCTGTC	ACTGCAGCGG	CCAGCTCTTG	660
AGGACCTGCT	CCTGGGTTCA	GATGCCAGCA	TCACATGTAC	TCTGAATGGC	CTGAGAAATC	720
CTGAGGGAGC	TGCTTTCACC	TGGGAGCCCT	CCACTGGGAA	GGATGCAGTG	CAGAAGAAAG	780
CTGCGCAGAA	TTCCTGCGGC	TGCTACAGTG	TGTCCAGCGT	CCTGCCTGGC	TGTGCTGAGC	840
GCTGGAACAG	TGGCGCATCA	TTCAAGTGCA	CAGTTACCCA	TCCTGAGTCT	GGCACCTTAA	900
CTGGCACAAT	TGCCAAAGTC	ACAGGTGAGC	TCAGATGCAT	ACCAGGACAT	TGTATGACGT	960
TCCCTGCTCA	CATGCCTGCT	TTCTTCCTAT	AATACAGATG	CTCAACTAAC	TGCTCATGTC	1020
CTTATATCAC	AGAGGGAAAT	TGGAGCTATC	TGAGGAACTG	CCCAGAAGGG	AAGGGCAGAG	1080
GGGTCTTGCT	CTCCTTGTCT	GAGCCATAAC	TCTTCTTTCT	ACCTTCCAGT	GAACACCTTC	1140
CCACCCCAGG	TCCACCTGCT	ACCGCCGCCG	TCGGAGGAGC	TGGCCCTGAA	TGAGCTCTTG	1200
TCCCTGACAT	GCCTGGTGCG	AGCTTTCAAC	CCTAAAGAAG	TGCTGGTGCG	ATGGCTGCAT	1260
GGAAATGAGG	AGCTGTCCCC	AGAAAGCTAC	CTAGTGTTTG	AGCCCCTAAA	GGAGCCAGGC	1320
GAGGGAGCCA	CCACCTACCT	GGTGACAAGC	GTGTTGCGTG	TATCAGCTGA	AACCTGGAAA	1380
CAGGGTGACC	AGTACTCCTG	CATGGTGGGC	CACGAGGCCT	TGCCCATGAA	CTTCACCCAG	1440
AAGACCATCG	ACCGTCTGTC	GGGTAAACCC	ACCAATGTCA	GCGTGTCTGT	GATCATGTCA	1500
GAGGGAGATG	GCATCTGCTA	CTGAGCCACC	CTGCCTGTCC	CTACTCCTAG	AATAAACTCT	1560
GTGCTCATCC	AAAGTATCCC	TGCACTTCCA	CCCAGTGCCT	GTCCACCACC	CTGGGGTCTA	1620
CGAAACACAG	GGAGGGGTCA	GGGCCCAGGG	AGGGAGAAAT	ACCACCACCT	AAGC	1674

(2) INFORMATION FOR SEQ ID NO:324:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 133 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:324:

GCCTCGGACA CCGCCATGTA TTACTGTGTG AGACATTTAT GGTTCGGGGA GTTACGCGGT 60
GTGAACGTCT GGGGCCAAGG GACCACGGTC ACCGTCTCCT CAGCCAAAAC GACACCCCCA 120
TCTGTCTATC CAC 133

(2) INFORMATION FOR SEQ ID NO:325:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:325:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGACACTGGG CATTGGATGC TCTTGATGTC	60
TGGGGCCAAG GGACAATGCT CACCGTCTCT TCAGCCAAAA CGACACCCCC ATCTGTCTAT	120
CCAC	124
(2) INFORMATION FOR SEQ ID NO:326:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 121 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:326:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGAACTGGGG ATGATGCTTT TGATATCTGG	6Ó
GGCCAAGGGA CAATGGTCAC CGTCTCTTCA GCCAAAACAA CACCCCCATC AGTCTATCCA	120
c	121
(2) INFORMATION FOR SEQ ID NO:327:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 121 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:327:	
GACTCGGACA CCGCCATGTA TTACTGTGCG AGACAGGGGA GAGATGCTTT AGATATCTGG	60
GGCCAAGGGA CAATGGTCAC CGTCTCTTCA GCCAAAACAA CACCCCCATC AGTCTATCCA	120
С	121

(2) INFORMATION FOR SEQ ID NO:328:

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 136 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:328:	
GCCTCGGACA CCGCCATGTA TTATTGTGTG AGACATAGGG ACTATATTTC GGGGAGTTAT	60
TTTCCTGACT ACTGGGGCCA GGGAACCCTG GTCACCGTCT CCTCAGCCAA AACAACACCC	120
CCATCAGTCT ATCCAC	136
(2) INFORMATION FOR SEQ ID NO:329:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 115 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:329:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGACATGGGT CTATGGATAT CTGGGGCCAA	60
GGGACAATGG TCACCGTCTC TTCAGCTACA ACAACAGCCC CATCTGTCTA TCCCT	115
(2) INFORMATION FOR SEQ ID NO:330:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 127 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:330:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGAGAGAGCG GTCACTGGGG ATCGTTTGAC	60
TATTGGGGCC AGGGAACCCT GGTCACCGTC TCCTCAGCTA CAACAACAGC CCCATCTGTC	120
TATCCCT	127
(2) INFORMATION FOR SEQ ID NO:331:	

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 124 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:331:	
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGAAGGGACC CCCCTGATGC TTTTGATATC	60
TGGGGCCAAG GGACAATGGT CACCGTCTCT TCAGCTACAA CAACAGCCCC ATCTGTCTAT	120
CCCT	124
(2) INFORMATION FOR SEQ ID NO:332:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 130 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: cDNA	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:332:	,
GCCTCGGACA CCGCCATGTA TTACTGTGCG AGACGGGGGC CTTACTACTA CTACGGTATG	60
GACGTCTGGG GCCAAGGGAC CACGGTCACC GTCTCCTCAG CTACAACAAC AGCCCCATCT	120
GTCTATCCCT	130
(2) INFORMATION FOR SEQ ID NO:333:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:333:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGA	246

(2) INFORMATION FOR SEQ ID NO:334:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 32 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:334:	
TACTGGTACT TCGATCTCTG GGGCCGTGGC AC	32
(2) INFORMATION FOR SEQ ID NO:335:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 293 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:335:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGACAAG GGACTGGGA GGACTGGTAC TTCGATCTCT GGGGCCGTGG CAC	293
(2) INFORMATION FOR SEQ ID NO:336:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:336:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240

GCGAGACAGA AGGGGGGAAG GGGGTACTTC GATCTCTGGG GCCGTGGCAC	290
(2) INFORMATION FOR SEQ ID NO:337:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 287 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:337:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGAACTG GGTGGTACTG GTACTTCGAT CTCTGGGGCC GTGGCAC	287
(2) INFORMATION FOR SEQ ID NO:338:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:338:	
GCTTTTGATA TCTGGGGCCA AGGGAC	26
(2) INFORMATION FOR SEQ ID NO:339:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 293 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:339:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GCGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120

GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCT	CAGCCGA CAAGTCCATC 180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACA	CCGCCAT GTATTACTGT 240
GCGAGACATG AAACTGGGGA TCCGGGGGCT TTTGATATCT GGG	GCCAAGG GAC 293
(2) INFORMATION FOR SEQ ID NO:340: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 26 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:340:	
TACTTTGACT ACTGGGGCCA GGGAAC	26
(2) INFORMATION FOR SEQ ID NO:341:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:341:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCA	GCTACTG GATCGGCTGG 60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCA	TCTATCC TGGTGACTCT 120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCT	CAGCCGA CAAGTCCATC 180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACA	CCGCCAT GTATTACTGT 240
GCGAGAACGG ATTACGATAT TTTGACTGGT TATTATAACC CTT	TTGACTA CTGGGGCCAG 300
GGAAC	305
(2) INFORMATION FOR SEQ ID NO:342:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 284 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:342:

TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA	CCAGCTACTG	GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA	TCATCTATCC	TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA	TCTCAGCCGA	CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG	ACACCGCCAT	GTATTACTGT	240
GCGAGTATAG CAGCAGCCCT TTTTGACTAC TGGGGCCAGG	GAAC		284
(2) INFORMATION FOR SEQ ID NO:343: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 290 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34	3:		
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA	CCAGCTACTG	GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA	TCATCTATCC	TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA	TCTCAGCCGA	CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG	ACACCGCCAT	·GTATTACTGT	240
GCGAGATCTC TACTATGGTT CGGGGAGTTT GACTACTGGG	GCCAGGGAAC		290
(2) INFORMATION FOR SEQ ID NO:344: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)			
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34	4:		
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA			60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA	TCATCTATCC	TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA			180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG	ACACCGCCAT	GTATTACTGT	240
GCGAGACTCG ATTACGATAT TTTGACTGGT TATTATAACC	CCTTTCACTA	CTCCCCCCAC	300

GGAAC

(2) INFORMATION FOR SEQ ID NO:345:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:345:
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG 60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCGGCCGA CAAGTCCATC 180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240
GCGAGACTCG ATTACGATAT TTTGACTGGT TATTATAACC CCTTTGACTA CTGGGGCCAG 300
GGAAC 305
(2) INFORMATION FOR SEQ ID NO:346:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 293 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:346:
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG 60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC 180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240
GCGAGCCCGT ATAGCAGCAG CTGGTACAGG TTTGACTACT GGGGCCAGGG AAC 293
(2) INFORMATION FOR SEQ ID NO:347:

(ii) MOLECULE TYPE: DNA (genomic)

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 41 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:347:	
TACTACTACT ACTACGGTAT GGACGTCTGG GGCCAAGGGA C	41
(2) INFORMATION FOR SEQ ID NO:348:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:348:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGAGAGG GGGGGTTTA TTACTATGGT TCGGGGAGTT ATTACTACTA CGGTATGGAC	300
GTCTGGGGCC AAGGGAC	317
(2) INFORMATION FOR SEQ ID NO:349:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 305 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:349:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGAGAGG GAACTGGGGA CCATTACTGC TACTACTACG GTATGGACGT CTGGGGCCAA	300
GGGAC	305

(2) INFORMATION FOR SEQ ID NO:350:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 39 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:350:	
TACTGGTACT TCGATCTCTG GGGCCGTGGC ACCCTGGTC	39
(2) INFORMATION FOR SEQ ID NO:351:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 303 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:351:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTCG TCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGACAGG GACTGGGGAT CGGGGAATGG TACTTCGATC TCTGGGGCCG TGGCACCCTG	300
GTC	303
(2) INFORMATION FOR SEQ ID NO:352:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:352:	
GCTTTTGATA TCTGGGGCCA AGGGACAATG GTC	33
(2) INFORMATION FOR SEQ ID NO:353:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 291 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single	

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:353:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACGGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGGTAAACT GGGATCGGGC TTTTGATATC TGGGGCCCAAG GGACAATGGT C	291
(2) INFORMATION FOR SEQ ID NO:354: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 33 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:354:	
TACTTTGACT ACTGGGGCCA GGGAACCCTG GTC	33
(2) INFORMATION FOR SEQ ID NO:355:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:355:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCGGCTACTG GATCGGCTGG	60
GTGCGCCAGA TACCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGTACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTTCTGT	240
GCGAGACATA AGGCGGGGAT CAACTACTTT GCCTACTGGG GCCAGGGAAC CCTGGTC	297
(2) INFORMATION FOR SEQ ID NO:356:	
(i) SEQUENCE CHARACTERISTICS:	

(A) LENGTH: 297 base pairs

(B) TYPE: nucleic acid (C) STRANDEDNESS: single

(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:356:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAACTTCA CCGGCTACTG GATCGGCTGG	60
GTGCGCCAGA TACCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGTACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTTCTGT	240
GCGAGACATA AGGCGGGGAT CAACTACTTT GCCTACTGGG GCCAGGGAAC CCTGGTC	297
(2) INFORMATION FOR SEQ ID NO:357:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:357:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAACTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCG TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGAGACT GGGGAGAAGG GTATTACTTT GACTACTGGG GCCAGGGAAC CCTGGTC	297
(2) INFORMATION FOR SEQ ID NO:358:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 282 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEO ID NO:358:	

TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGTTTTA CCAGCTACTG GATCGGCTGG

GTGCGCCAGA TGCCCGGGCA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120

60

GATACCAGAT ACAGCGCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GÇGAGACAAC TGGTTGACTA CTGGGGCCAG GGAACCCTGG TC	282
(2) INFORMATION FOR SEQ ID NO:359:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:359:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA TCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGACTGT ATTACTATGG TTCGGGGAGT TACCACAACT GGTTCGACCC CTGGGGCCAG	300
GGAACCCTGG TC	312
(2) INFORMATION FOR SEQ ID NO:360:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 36 base pairs	
(B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:360:	
AACTGGTTCG ACCCCTGGGG CCAGGGAACC CTGGTC	36
(2) INFORMATION FOR SEQ ID NO:361:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 318 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:361:	
TCTCTGAAGA TCTCCTGTAA GGTTTCTGGA TACAACTTTG CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCACATATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AACACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGACAGG GGTATTACTA TGGTTCGGCA AATTATTATA ACATTTGGTT CGACCCCTGG	300
GGCCAGGGAA CCCTGGTC	318
(2) INFORMATION FOR SEQ ID NO:362: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 48 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:362:	
TACTACTACT ACTACGGTAT GGACGTCTGG GGCCAAGGGA CCACGGTC	48
(2) INFORMATION FOR SEQ ID NO:363: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 297 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:363:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TATAGTTTTG CCAACTACGG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCC	120
GGTTCCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AACACCGCCT ACCTGCAATG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGCCCCGG CGTACTACTA CTACGGTATG GACGTCTGGG GCCAAGGGAC CACGGTC	297
(2) INFORMATION FOR SEQ ID NO:364:	

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 156 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:364:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTC	156
(2) INFORMATION FOR SEQ ID NO:365:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:365:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGTTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTC	156
(2) INFORMATION FOR SEQ ID NO:366:	
(i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:366:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA GCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTC	156
(2) INFORMATION FOR SEQ ID NO:367:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	

(11) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:367:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAACTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTC	156
(2) INFORMATION FOR SEQ ID NO:368:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 156 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:368:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCACCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTC	156
(2) INFORMATION FOR SEQ ID NO:369:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:369:	
TCTCTGAAGA TCTCCTGTAA GGGCTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCGAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTCGAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGACAGG GGGGGGATAG GTACTTCGAT CTCTGGGGCC GTGGCACCCT GGTC	294

(2) INFORMATION FOR SEQ ID NO:370:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 297 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:370:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGACATT GGCTAAATGG GGATGCTTTT GATATCTGGG GCCAAGGGAC AATGGTC	297
(2) INFORMATION FOR SEQ ID NO:371:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:371:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AGGGCCTCGG ACAGTGTCAT GTATTACTGT	240
GCGAGACGGG ATTACGATAT TTTGACTGGT TATTATGCGG CTTTTGATAT CTGGGGCCAA	300
GGGACAATGG TC	312
(2) INFORMATION FOR SEQ ID NO:372:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 317 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) 	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:372:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGTTTTT CCGACTACTG GATCGGCTGG	60

GTGCGCCAGA	TGCCCGGGAA	AGGCCTGGAG	TGGATGGGGA	TCATCTATCC	TGGTGACTCT	120
GACACCAGAT	ACAGCCCGTC	CTTCCAGGGC	CAGGTCTCCA	TCTCAGTCGA	CAAGTCCATC	180
AACACCGCCT	TCCTGCAGTG	GAACACCCTG	GAGGCTTCGG	ACACCGCCAT	GTATTACTGT	240
GCGAGAGGGT	ATTATTATGA	TTCGGGGACT	TATTATAAGT	CTACCCCTTT	GACTATTGGG	300
GCCAGGGAAC	CCTGGTC					317

(2) INFORMATION FOR SEQ ID NO:373:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 288 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:373:

TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGTTTT CCGACTACTG GATCGGCTGG 60

GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120

GACACCAGAT ACAGCCCGTC CTTCCAGGGC CAGGTCTCCA TCTCAGTCGA CAAGTCCATC 180

AACACCGCCT TCCTGCAGTG GAACACCCTG GAGGCTTCGG ACACCGCCAT GTATTACTGT 240

GCGAGACTAA CTGGCCTCTT TAACTATTGG GGCCAGGGAA CCCTGGTC 288

(2) INFORMATION FOR SEQ ID NO:374:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 285 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:374:

TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG 60

GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120

GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC 180

AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240

GCGAGACATC TTTACTTTGA CTACTGGGGC CAGGGAACCC AGGTC 285

(2) INFORMATION FOR SEQ ID NO:375:

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 282 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:375:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCCAATG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTGGCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGTACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGACAAG GGTTTGACTA CTGGGGCCAG GGAACCCTGG TC	282
(2) INFORMATION FOR SEQ ID NO:376: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:376:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGTTTTA GCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGACATC TTTACTTTGA CTACTGGGGC CAGGGAACCC AGGTC	285
(2) INFORMATION FOR SEQ ID NO:377: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:377:	

TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAACTACTG GATCGGCTGG

60

GTGCGCCAGA	TGCCCGGGAA	AGGCCTGGAG	TGGATGGGGA	TCATCTATCC	TGGTGACTCT	120
GATACCAGAT	ACAGCCCGTC	CTTCCAAGGC	CAGGTCACCA	TCTCAGCCGA	CAAGTCCATC	180
AGCACCGCCT	ACCTGCAGTG	GAGCAGCCTG	AAGGCCTCGG	ACACCGCCAT	GTATTACTGT	240
GCGAGACAAA	CTTTTGACTA	CTGGGGCCAG	GGAACCCTGG	TC	_	282

(2) INFORMATION FOR SEQ ID NO:378:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 303 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:378:

TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG 60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC 180
AGGACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240
GCGAGACATG GTATAGCAGC AGCTGGTACG TGGTTCGACC CCTGGGGCCA GGGAACCCTG 300
GTC 303

(2) INFORMATION FOR SEQ ID NO:379:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 285 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:379:

TCTCTGAAGA TCTCCTGTAG GGGTTCTGGA TACAGCTTTT CCAGTTACTG GATCGCCTGG 60

GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120

GAAACCAGAT ACAGTCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC 180

AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240

GCGAGACAGG GCTACTTTGA CTACTGGGGC CAGGGAACCC TGGTC 285

(2) INFORMATION FOR SEQ ID NO:380:

(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 285 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:380:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGTACCGCCT ACCTGCAGTG GAGCAGCCTG AGGGCCTCGG ACACCGCCAT TTATTACTGT	240
GCGAGACATC TTTACTTTGA CTACTGGGGC CAGGGAACCC AGGTC	285
(2) INFORMATION FOR SEQ ID NO:381: (i) SEQUENCE CHARACTERISTICS:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGGCCGGGT ATACCAGCAG CTGGTTCTTT GACTTCTGGG GCCAGGGAAC CCTGGTC	297
(2) INFORMATION FOR SEQ ID NO:382: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:382:	

TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG 60

(2)

GTGCGCCAGA	TGCCCGGGAA	AGGCCTGGAG	TGGATGGGGA	TCATCTATCC	TGGTGACTCT	120
GATACCAGAT	ACAGCCCGTC	CTTCCAAGGC	CAGGTCACCA	TCTCAGCCGA	CAAGTCCATC	180
AGCACCGCCT	ACCTGCAGTG	GAGCAGCCTG	AAGGCCTCGG	ACACCGCCAT	GTATCGCTGT	240
GCGAGACATC	TTTACTTTGA	CTACTGGGGC	CAGGGAACCC	AGGTC		285

(2) INFORMATION FOR SEQ ID NO:383:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 300 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:383:

TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTC CCATCTACTG GATCGGCTGG 60

GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120

GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC 180

AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240

GCGAGAGTGG TTCGGGGATT TATTATTTAC TTTGACTACT GGGGCCAGGG AACCCTGGTC 300

(2) INFORMATION FOR SEQ ID NO:384:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 287 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:384:

TCTCTGAAGA TCTCCTGTAA GGTTTCTGGA TACAGCTTAA CCAGTTATTG GATCGGCTGG 60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC 180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240
GCGAGACAAA GGGGTACTTT GACTACTGGG GCCAGGGAAC CCTGGTC 287

(2) INFORMATION FOR SEQ ID NO:385:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 288 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single (D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:385:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGGGGAT CGTGGTACTT TGACTACTGG GGCCAGGGAA CCCTGGTC	288
(2) INFORMATION FOR SEQ ID NO:386:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:386:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAACTTTA CCACCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCGTC	180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT	240
GCGAGACTCC CCAATGACAG TTGGTTCGAC CCCTGGGGCC AGGGAACCCT GGTC	294
(2) INFORMATION FOR SEQ ID NO:387:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 312 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:387:	
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG	60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT	120

GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC 180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240
GCGAGACGGG GGTACTATGG TTCGGGGAGT TATTATAACT GGTTCGACCC CTGGGGCCAG 300
GGAACCCTGG TC 312
(2) INFORMATION FOR SEQ ID NO:388:
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 312 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEOUENCE DESCRIPTION: SEO ID NO:388:
, 2
1010101011011 1010101111 1010101011111 10101011111 101010111111
GTGCGCCAGA TACCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC 180
AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240
GCGAGACATG AGCAGCTGGT ACAGGGTTAC TACTACTACG GTATGGACGT CTGGGGCCAA 300
GGGACCACGG TC 312
(2) INFORMATION FOR SEQ ID NO:389:
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 309 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:389:
TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACACCTTTA CCAGTTACTG GATCGCCTGG 60
GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTATCC TGGTGACTCT 120
GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC 180

AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT

GCGAGAGATA TGGGGGGGC CTCCTACTTC TACTTCGGTA TGGACGTCTG GGGCCAAGGG

ACCACGGTC

240

300

309

(2) INFORMATION FOR SEQ ID NO:390:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 294 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:390:

TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTG CCAACTACTG GATCGGCTGG 60

GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTTTCC TGGTGACTCT 120

GATACCAGAT ACAGCCCGTC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAACTCCATC 180

AGCACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240

GCGAGACACC ACGACTACTA CGGTATGGAC GTCTGGGGCC AAGGGACCAC GGTC 294

(2) INFORMATION FOR SEQ ID NO:391:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 288 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:391:

TCTCTGAAGA TCTCCTGTAA GGGTTCTGGA TACAGCTTTA CCAGCTACTG GATCGGCTGG 60

GTGCGCCAGA TGCCCGGGAA AGGCCTGGAG TGGATGGGGA TCATCTTTCC TGGTGACTCT 120

GATACCAGAT ACAGCCCGCC CTTCCAAGGC CAGGTCACCA TCTCAGCCGA CAAGTCCATC 180

AACACCGCCT ACCTGCAGTG GAGCAGCCTG AAGGCCTCGG ACACCGCCAT GTATTACTGT 240

GCGAGACGCT ACTACGGTAT GGACGTCTGG GGCCAAGGGA CCACGGTC 288

(2) INFORMATION FOR SEQ ID NO:392:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 246 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:392:

TCCCTGAGAC	TCTCCTGTGC	AGCCTCTGGA	TTCACCTTCA	GTAGCTATGC	TATGCACTGG	60
GTCCGCCAGG	CTCCAGGCAA	GGGGCTGGAG	TGGGTGGCAG	TTATATCATA	TGATGGAAGC	120
ААТАААТАСТ	ACGCAGACTC	CGTGAAGGGC	CGATTCACCA	TCTCCAGAGA	CAATTCCAAG	180
AACACGCTGT	ATCTGCAAAT	GAACAGCCTG	AGAGCTGAGG	ACACGGCTGT	GTATTACTGT	240
GCGAGA						246

(2) INFORMATION FOR SEQ ID NO:393:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 294 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:393:

TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GTAGCTATGC TATGCACTGG 60
GTCCGCCAGG CTCCAGGCAA GGGGCTGGAC TGGGTGGCAG TTATATCATA TGATGGAACC 120
AATAAATACG ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAATTCCAAG 180
AACACGCTGT ATCTGCAAAT GAACAGCCTG AGATCTGAGG ACACGGCTGT GTATTACTGT 240
GCGAGAGAGT CTTCCGGCTG GTACTTCGAT TTCTGGGGCC GTGGCACCCT GGTC 294

(2) INFORMATION FOR SEQ ID NO:394:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 294 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:394:

TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GTAGCTATGC TATGCACTGG 60

GTCCGCCAGG CTCCAGGCAA GGGGCTGGAC TGGGTGGCAG TTATATCATA TGATGGAACC 120

AATAAATACG ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAATTCCAAG 180

AACACGCTGT ATCTGCAAAT GAACAGCCTG AGATCTGAGG ACACGGCTGT GTATTACTGT 240

GCGAGGAAGT CTTCCGGCTG GTACTTCGAT TTCTGGGGCC GTGGCACCCT GGTC 294

(2) INFORMATION FOR SEQ ID NO:395:

 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear
(ii) MOLECULE TYPE: DNA (genomic)
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:395:
TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA ATAACTGTAC TATACACTGG 60
GTCCGCCAGG CTCCAGGCAA GGGGCTGGAC TGGGTGGCAG TTATATCATA TGATGGAGCC 120
AATAAATACG ACGCAGAGTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAATTCCAAG 180
AACATGCTGT ATCCGCAAAT GAACAGCCTG AGATCTGAGG ACACGGCTGT GTATTACTGT 240
GCGAGAGAGT CCTCCGGCTG GTACTTCGAT CTTTGGGGCC GTGGCACCCT GGTC 294
(2) INFORMATION FOR SEQ ID NO:396: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:396:
TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA ATAACTGTAC TATACACTGG 60
GTCCGCCAGG CCCCAGGCAA GGGGCTGGAC TGGGTGGCAG TTATATCATA TGATGGAGCC 120
AATAAATACG ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAATTCCAAG 180
AACACGCTGT ATCTGCAAAT GAACAGCCTG GGATCTGAGG ACACGGCTGT GTATTACTGT 240
GCGAGCGAGT CCTCCGGCTC TTACTTCGAT CTCTGGGGCC GTGGCACCCT GGTC 294
(2) INFORMATION FOR SEQ ID NO:397: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:397:

TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GTAGCTATGC TATGCACTGG

60

GTCCGCCAGG	CTCCAGGCAA	GGGGCTGGAC	TGGGTGGCAA	TTATGTCATA	TGATGGAACC	120
AATAAATTCG	ACGCAGACTC	CGTGAAGGGC	CGATTCACCA	TCTCCAGAGA	CAATTCCAAG	180
AACACGCTGT	ATCTGCAAAT	GAACAGCCTG	AGATCTGAGG	ACACGGCTGT	GTATTACTGT	240
GCGAGAGAGT	CTTCCGGCTG	GTACTTCGAT	CTCTGGGGCC	GTGGCACCCT	GGTC	294

(2) INFORMATION FOR SEQ ID NO:398:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 294 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:398:

TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA ATAACTGTAC TCTACACTGG 60

GTCCGCCAGG CTCCAGGCAA GGGGCTGGAC TGGGTGTCAG TTATATCATA TGATGGAGCC 120

AATAAATACG ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAATTCCAAG 180

AACACGCTGT ATCTGCAAAT GAACAGCCTG AGATCTGAGG ACACGGCTGT GTATTACTGT 240

GCGAGAGAGGT CCTCCGGCTG GTACTTCGAT CTCTGGGGCC GTGGCACCCT GGTC 294

(2) INFORMATION FOR SEQ ID NO:399:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 294 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:399:

TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GTAGCTATGC TATGCACTGG 60

GTCCGCCAGG CTCCAGGCAA GGGGCTGGAC TGGGTGGCAG TTTTTTCATA TGATGGAACC 120

AATAAATACG ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAATTCCAAG 180

AACACGCTGT ATCTGCAAAT GAACAGCCTG AGATCTGAGG ACACGGCTGT TTATTACTGT 240

GCGAGAGAGGT CTTCCGGCTG GTACTTCGAT TTCTGGGGCC GTGGCACCCT GGTC 294

(2) INFORMATION FOR SEQ ID NO:400:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 294 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:400:	
TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GTAACTATAC TATGCACTGG	60
GTCCGCCAGG CTCCAGGCAA GGGGCTGGAC TGGGTGGCAG TTTTTTCATA TGATGGAACC	120
AATAAATACG ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAATTCCAAG	180
AACACGCTGT ATCTGCAAAT GAACAGCCTG AGATCTGAGG ACACGGCTGT TTATTACTGT	240
GCGAGAGAGT CTTCCGGCTG GTACTTCGAT TTCTGGGGCC GTGGCACCCT GGTC	294
(2) INFORMATION FOR SEQ ID NO:401:	
(i) SEQUENCE CHARACTERISTICS:(A) LENGTH: 294 base pairs(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:401:	
TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA ATAACTGTAC TATACACTGG	60
GTCCGCCAGG CTCCAGGCAA GGGGCTGGAC TGGGTGGCAG TTATATCATA TGATGGAGCC	120
AATAAATACG ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAAATCCAAG	180
AACACGCTGT ATCTGCAAAT GAGCAGCCTG AGATCTGAAG ACACGGCTGT ATATTACTGT	240
GTGAGAGAGT CCTCCGGCTG GTACTTCGAT CTCTGGGGCC GTGGCACCCT GGTC	294
(2) INFORMATION FOR SEQ ID NO:402:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 294 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:402:	
TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GTAGCTATGC TATGCACTGG	60
GTCCGCCAGG CTCCAGGCAA GGGGCTGGAG TGGGTGGCAG TTATATCATA TGATGGAAGC	120

AATAAATACT	ACGCAGACTC	CGTGAAGGGC	CGATTCACCA	TCTCCAGAGA	CAATTCCAAG	180
AACACGCTGT	ATCTGCAAAT	GAACAGCCTG	AGAGCTGAGG	ACACGGCTGT	GTATTACTGT	240
GCGAGAGGAT	GGTTCGGGGA	GTTATGGGAC	TACTGGGGCC	AGGGAACCCT	GGTC	294
(2) INFORMATION FOR SEQ ID NO:403:						

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:403:

TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GCAGCTATGC TATGCACTGG 60
GTCCGCCAGG CTCCAGGCAA GGGGCTGGAG TGGGTGGCAG TTATATCATA TGATGGAAGC 120
AATAAATACT ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAATTCCAAG 180
AACACGCTGT ATCTGCAAAT GAACAGCCTG GGAGCTGAGG ACACGGCTGT GTATTACTGT 240
GCGAGAGAGA GTCTCTTAAC TGGGGACTTT GACTACTGGG GCCAGGGAAC CCTGGTC 297

(2) INFORMATION FOR SEQ ID NO:404:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 312 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:404:

TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GTAGCTATGC TATGCACTGG 60
GTCCGCCAGG CTCCAGGCAA GGGGCTGGAG TGGGTGGCAG TTATATCATA TGATGGAAGC 120
AATAAATACA ACGCAGACTC CGTGAAGGGT CGATTCACCA TCTCCAGAGA CAACTCCAAG 180
AACACGCTGT ATCTGCAAAT GAACAGCCTG AGAGCTGAGG ACACGGCTGT GTATTACTGT 240
GCGAGAGGGT ACGATATTTT GACTGGTTAT TATGACCCGC TCTTTGACAA CTGGGGCCAG 300
GGAACCCTGG TC 312

(2) INFORMATION FOR SEQ ID NO:405:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 312 base pairs

(B) TYPE: nucleic acid(C) STRANDEDNESS: single(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:407:

(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:405:	
TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GTAGCTATAC TATGCACTGG	60
GTCCGCCAGG CTCCAGGCAA GGGGCTGGAG TGGGTGGCAG TTATATCATA TGATGGAAGC	L20
AATAAATACT ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAATTCCAAG	180
AACACGCTGT ATCTGCAAAT GAACAGCCTG AGAGCTGAGG ACACGGCTGT GTATTACTGT 2	240
GCGAGAGGGT ACGATATTTT GACTGGTTAT TATGACCCGC TCTTTGACAA CTGGGGCCAG	300
GGAACCCTGG TC	312
(2) INFORMATION FOR SEQ ID NO:406:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:406:	
TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GTAGCTATGC TATGCACTGG	60
GTCCGCCAGG CTCCAGGCAA GGGGCTGGAG TGGGTGGCAG TTATATCATA TGATGGAAGC	L20
AATAAATACT ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAGTTCCAAG	180
AACACGCTGT ATCTGCAAAT GAACAGCCTG AGAGCTGAGG ACACGGCTGT GTATTACTGT 2	240
GCGAGAGATC AGGCGGCGTA TAGTGGCTAC GGGTCGGGGG GTATGGACGT CTGGGGCCAA	300
GGGACCACGG TC	312
(2) INFORMATION FOR SEQ ID NO:407: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 312 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear	

TCCCTGAGAC	TCTCCTGTGC	AGCCTCTGGA	TTCACCTTCA	GTAGCTATAC	TATGCACTGG	60
GTCCGCCAGG	CTCCAGGCAA	GGGGCTGGAG	TGGGTGGCAG	TTATATCATA	TGATGGAAGC	120
ААТАААТАСТ	ACGCAGACTC	CGTGAAGGGC	CGATTCACCA	TCTCCAGAGA	CAATTCCAAG	180
AACACGCTGT	ATCTGCAAAT	GAACAGCCTG	AGAGCTGAGG	ACACGGCTGT	GTATTACTGT	240
GCGAGCCATT	ACTATGGTTC	GGGGAGTTAT	AGCTACTACG	GTATGGACGT	CTGGGGCCAA	300
GGGACCACGG	TC					312

(2) INFORMATION FOR SEQ ID NO:408:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 312 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:408:

TCCCTGAGAC TCTCCTGTGC AGCCTCTGGA TTCACCTTCA GTAGCTATAC TATGCACTGG 60
GTCCGCCAGG CTCCAGGCAA GGGGCTGGGG TGGGTGGCAG TTATATCATA TGATGGAAGC 120
AATAAATACT ACGCAGACTC CGTGAAGGGC CGATTCACCA TCTCCAGAGA CAATTCCAAG 180
AACACGCTGT ATCTGCAAAT GAACAGCCTG AGAGCTGAGG ACACGGCTGT GTATTACTGT 240
GCGAGCCATT ACTATGGTTC GGGGAGTTAT AGCTACTACG GTATGGACGT CTGGGGCCAA 300
GGGACCACGG TC 312

(2) INFORMATION FOR SEQ ID NO:409:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 306 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: DNA (genomic)
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:409:

ACGGTC	306
(2) INFORMATION FOR SEQ ID NO:410:	
 (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 246 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear 	
(ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:410:	
TCGGTGAAGG TCTCCTGCAA GGCTTCTGGA GGCACCTTCA GCAGCTATGC TATCAGCTGG	60
GTGCGACAGG CCCCTGGACA AGGGCTTGAG TGGATGGGAA GGATCATCCC TATCCTTGGT	120
ATAGCAAACT ACGCACAGAA GTTCCAGGGC AGAGTCACGA TTACCGCGGA CAAATCCACG	180
AGCACAGCCT ACATGGAGCT GAGCAGCCTG AGATCTGAGG ACACGGCCGT GTATTACTGT	240
GCGAGA	246
(2) INFORMATION FOR SEQ ID NO:411: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 300 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic) (xi) SEQUENCE DESCRIPTION: SEQ ID NO:411:	
TCGGTGAAGG TCTCCTGCAA GGCTTCTGGA GGCACCTTCA GCACCTATGC TATCACCTGG	60
GTGCGACAGG CCCCTGGACA AGGGCTTGAG TGGATGGGAA AGATCATCCC TATCTTTGGT	120
ATAGCAAACT ACGCACAGAA GTTCCAGGGC AGAGTCACGA TTACCGCGGA CAAATCCACG	180
AGCACAGCCT ACATGGAGCT GACCAGCCTG AGATCTGAGG ACACGGCCGT GTATTACTGT	240
GCGAGAGACG AGACTGGGGA TCTCGGTGCT TTTGATATCT GGGGCCAAGG GACAATGGTC	300
(2) INFORMATION FOR SEQ ID NO:412: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 243 base pairs (B) TYPE: nucleic acid	
(C) STRANDEDNESS: single (D) TOPOLOGY: linear	

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:412:	
ACCCTGTCCC TCACCTGCGC TGTCTATGGT GGGTCCTTCA GTGGTTACTA CTGGAGCTGG	60
ATCCGCCAGC CCCCAGGGAA GGGGCTGGAG TGGATTGGGG AAATCAATCA TAGTGGAAGC	120
ACCAACTACA ACCCGTCCCT CAAGAGTCGA GTCACCATAT CAGTAGACAC GTCCAAGAAC	180
CAGTTCTCCC TGAAGCTGAG CTCTGTGACC GCCGCGGACA CGGCTGTGTA TTACTGTGCG	240
AGA	243
(2) INFORMATION FOR SEQ ID NO:413: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 282 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:413:	
ACCCTGTCCC TCACCTGCGC TGTCTATGGT GGGTCCTTCA GTGGTTACTA CTGGAGCTGG	60
ATCCGCCAGC CCCCAGGGAA GGGGCTGGAG TGGATTGGGG AAATCAATCA TAGTGGAAGC	120
ACCAACTACA ACCCGTCCCT CAAGAGTCGA GTCACCATAT CAGTAGACAC GTCCAAGAAC	180
CAGTTCTCCC TGAAGCTGAG CTCTGTGACC GCCGCGGACA CGGCTGTGTA TTACTGTGCG	240
AGGAACTTAT TTTTTGACTA CTGGGGCCAG GGAACCCTGG TC	282
(2) INFORMATION FOR SEQ ID NO:414: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 285 base pairs (B) TYPE: nucleic acid (C) STRANDEDNESS: single (D) TOPOLOGY: linear (ii) MOLECULE TYPE: DNA (genomic)	
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:414:	
ACCCTGTCCC TCACCTGCGC TGTCTATGGT GGGTCCTTCA GTGGTTACTA CTGGAGCTGG	60
ATCCGCCAGC CCCCAGGGAA GGGGCTGGAG TGGATTGGGG AAATCAATCA TAGTGGAAGC	120
ACCAACTACA ACCCGTCCCT CAAGAGTCGA GTCACCATAT CAGTAGACAC GTCCAAGAAC	180
CAGTTCTCCC TGAAGCTGAG CTCTGTGACC GCCGCGGACA CGGCTGTGTA TTACTGTGCG	240
AGGGCAGCTA ACTGGTTTGA CTACTGGGGC CAGGGAACCC TGGTC	285

(2) INFORMATION FOR SEQ ID NO:415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:415:

ACCCTGTCCC TCACCTGCGC TGTCTATGGT GGGTCCTTCA GTGGTTACTA CTGGAGCTGG 60

ATCCGCCAGC CCCCAGGGAA GGGGCTGGAG TGGATTGGGG AAATCAATCA TAGTGGAAGC 120

ACCAACTACA ACCCGTCCCT CAAGAGTCGA GTCACCATAT CAGTAGACAC GTCCAAGAAC 180

CAGTTCTCCC TGAAGCTGAG CTCTGTGACC GCCGCGGACA CGGCTGTGTA TTACTGTGCA 240

GAGAGTGAGG GATGGGGATG GGACTACTTT GACTACTGGG GCCAGGGAAC CCTGGTC 297

(2) INFORMATION FOR SEQ ID NO:416:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 3122 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:416:

AATTAGCGGC CGCTGTCGAC AAGCTTCGAA TTCAGTATCG ATGTGGTACC TGGATCCTCG 60 AGTGCGGCCG CAGTATGCAA AAAAAAGCCC GCTCATTAGG CGGGCTCTTG GCAGAACATA 120 TCCATCGCGT CCGCCATCTC CAGCAGCCGC ACGCGGCGCA TCTCGGGCAG CGTTGGGTCC 180 TGGCCACGGG TGCGCATGAT CGTGCTCCTG TCGTTGAGGA CCCGGCTAGG CTGGCGGGGT 240 TGCCTTACTG GTTAGCAGAA TGAATCACCG ATACGCGAGC GAACGTGAAG CGACTGCTGC 300 TGCAAAACGT CTGCGACCTG AGCAACAACA TGAATGGTCT TCGGTTTCCG TGTTTCGTAA 360 AGTCTGGAAA CGCGGAAGTC AGCGCCCTGC ACCATTATGT TCCGGATCTG CATCGCAGGA 420 TGCTGCTGGC TACCCTGTGG AACACCTACA TCTGTATTAA CGAAGCGCTG GCATTGACCC 480 TGAGTGATTT TTCTCTGGTC CCGCCGCATC CATACCGCCA GTTGTTTACC CTCACAACGT 540 TCCAGTAACC GGGCATGTTC ATCATCAGTA ACCCGTATCG TGAGCATCCT CTCTCGTTTC 600 ATCGGTATCA TTACCCCCAT GAACAGAAAT TCCCCCTTAC ACGGAGGCAT CAAGTGACCA 660

AACAGGAAAA AACCGCCCTT AACATGGCCC GCTTTATCAG AAGCCAGACA TTAACGCTTC 720 TGGAGAAACT CAACGAGCTG GACGCGGATG AACAGGCAGA CATCTGTGAA TCGCTTCACG 780 ACCACGCTGA TGAGCTTTAC CGCAGCTGCC TCGCGCGTTT CGGTGATGAC GGTGAAAACC 840 TCTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGTCT GTAAGCGGAT GCCGGGAGCA 900 GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCGCA GCCATGACCC 960 AGTCACGTAG CGATAGCGGA GTGTATACTG GCTTAACTAT GCGGCATCAG AGCAGATTGT 1020 ACTGAGAGTG CACCATATGC GGTGTGAAAT ACCGCACAGA TGCGTAAGGA GAAAATACCG 1080 CATCAGGCGC TCTTCCGCTT CCTCGCTCAC TGACTCGCTG CGCTCGGTCG TTCGGCTGCG 1140 GCGAGCGGTA TCAGCTCACT CAAAGGCGGT AATACGGTTA TCCACAGAAT CAGGGGATAA 1200 CGCAGGAAAG AACATGTGAG CAAAAGGCCA GCAAAAGGCC AGGAACCGTA AAAAGGCCGC 1260 GTTGCTGGCG TTTTTCCATA GGCTCCGCCC CCCTGACGAG CATCACAAAA ATCGACGCTC 1320 AAGTCAGAGG TGGCGAAACC CGACAGGACT ATAAAGATAC CAGGCGTTTC CCCCTGGAAG 1380 CTCCCTCGTG CGCTCTCCTG TTCCGACCCT GCCGCTTACC GGATACCTGT CCGCCTTTCT 1440 CCCTTCGGGA AGCGTGGCGC TTTCTCATAG CTCACGCTGT AGGTATCTCA GTTCGGTGTA 1500 GGTCGTTCGC TCCAAGCTGG GCTGTGTGCA CGAACCCCCC GTTCAGCCCG ACCGCTGCGC 1560 CTTATCCGGT AACTATCGTC TTGAGTCCAA CCCGGTAAGA CACGACTTAT CGCCACTGGC 1620 AGCAGCCAGG CGCGCCTTGG CCTAAGAGGC CACTGGTAAC AGGATTAGCA GAGCGAGGTA 1680 TGTAGGCGGT GCTACAGAGT TCTTGAAGTG GTGGCCTAAC TACGGCTACA CTAGAAGGAC 1740 AGTATTTGGT ATCTGCGCTC TGCTGAAGCC AGTTACCTTC GGAAAAAGAG TTGGTAGCTC 1800 TTGATCCGGC AAACAAACCA CCGCTGGTAG CGGTGGTTTT TTTGTTTGCA AGCAGCAGAT 1860 TACGCGCAGA AAAAAAGGAT CTCAAGAAGA TCCTTTGATC TTTTCTACGG GGTCTGACGC 1920 TCAGTGGAAC GAAAACTCAC GTTAAGGGAT TTTGGTCATG AGATTATCAA AAAGGATCTT 1980 CACCTAGATC CTTTTAAATT AAAAATGAAG TTTTAAATCA ATCTAAAGTA TATATGAGTA 2040 AACTTGGTCT GACAGTTACC AATGCTTAAT CAGTGAGGCA CCTATCTCAG CGATCTGTCT 2100 ATTTCGTTCA TCCATAGTTG CCTGACTCCC CGTCGTGTAG ATAACTACGA TACGGGAGGG 2160 CTTACCATCT GGCCCCAGTG CTGCAATGAT ACCGCGAGAC CCACGCTCAC CGGCTCCAGA 2220 TTTATCAGCA ATAAACCAGC CAGCCGGAAG GGCCGAGCGC AGAAGTGGTC CTGCAACTTT 2280 ATCCGCCTCC ATCCAGTCTA TTAATTGTTG CCGGGAAGCT AGAGTAAGTA GTTCGCCAGT 2340 TAATAGTTTG CGCAACGTTG TTGCCATTGC TGCAGGCATC GTGGTGTCAC GCTCGTCGTT 2400 TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATCAAGG CGAGTTACAT GATCCCCCAT 2460 GTTGTGCAAA AAAGCGGTTA GCTCCTTCGG TCCTCCGATC GTTGTCAGAA GTAAGTTGGC 2520

CGCAGTGTTA TCACTCATGG TTATGGCAGC ACTGCATAAT TCTCTTACTG TCATGCCATC 2580 CGTAAGATGC TTTTCTGTGA CTGGTGAGTA CTCAACCAAG TCATTCTGAG AATAGTGTAT 2640 GCGGCGACCG AGTTGCTCTT GCCCGGCGTC AACACGGGAT AATACCGCGC CACATAGCAG 2700 AACTTTAAAA GTGCTCATCA TTGGAAAACG TTCTTCGGGG CGAAAACTCT CAAGGATCTT 2760 ACCGCTGTTG AGATCCAGTT CGATGTAACC CACTCGTGCA CCCAACTGAT CTTCAGCATC 2820 TTTTACTTTC ACCAGCGTTT CTGGGTGAGC AAAAACAGGA AGGCAAAATG CCGCAAAAAA 2880 GGGAATAAGG GCGACACGGA AATGTTGAAT ACTCATACTC TTCCTTTTTC AATATTATTG 2940 AAGCATTTAT CAGGGTTATT GTCTCATGAG CGGATACATA TTTGAATGTA TTTAGAAAAA 3000 TAAACAAATA GGGGTTCCGC GCACATTTCC CCGAAAAGTG CCACCTGACG TCTAAGAAAC 3060 CATTATTATC ATGACATTAA CCTATAAAAA TAGGCGTATC ACGAGGCCCT TTCGTCTTCA 3120 AG 3122

(2) INFORMATION FOR SEQ ID NO:417:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 5 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: linear
- (ii) MOLECULE TYPE: peptide
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO:417:

Met Glu Ser Asp Ser